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(54) DERIVES DE PHENYLALANINE EN TANT QU'HERBICIDES

(54) PHENYLALANINE DERIVATIVES AS HERBICIDES

(57)

The invention relates to phenylalanine derivatives of formula (I), wherein the radicals have the meaning cited in the description. The invention also relates to the utilization of said compounds as herbicides and/or for regulating plant growth.

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(54) Title: PHENYLALANINE DERIVATIVES AS HERBICIDES

(57) Abrégé/Abstract:

The invention relates to phenylalanine derivatives of formula (I), wherein the radicals have the meaning cited in the description. The invention also relates to the utilization of said compounds as herbicides and/or for regulating plant growth.



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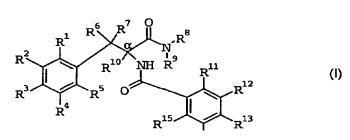
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Zur Erklärung der Zweibuchstaben-Codes und der anderen Abkürzungen wird auf die Erklärungen ("Guidance Notes on Codes and Abbreviations") am Anfang jeder regulären Ausgabe der PCT-Gazette verwiesen.

- (54) Title: PHENYLALANINE DERIVATIVES AS HERBICIDES
- (54) Bezeichnung: PHENYLALANINDERIVATE ALS HERBIZIDE



- (57) Abstract: The invention relates to phenylalanine derivatives of formula (I), wherein the radicals have the meaning cited in the description. The invention also relates to the utilization of said compounds as herbicides and/or for regulating plant growth.
- (57) Zusammenfassung: Die vorliegende Erfindung betrifft Phenylalaninderivate der Formel (I), wobei die Reste die in der Beschreibung angegebene Bedeutung haben, sowie die

Verwendung dieser Verbindungen als Herbizide und/oder zur Regulation des Wachstums von Pflanzen.



Phenylalanine derivatives as herbicides

The present invention relates to phenylalanine derivatives of the 5 formula

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15

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in which

 $R^1$ ,  $R^2$ ,  $R^4$ ,  $R^5$ ,  $R^{13}$  and  $R^{15}$  independently of one another are hydrogen, halogen, hydroxyl, mercapto, nitro, cyano, 20  $C_1-C_6-alkyl$ ,  $C_2-C_6-alkenyl$ ,  $C_2-C_6-alkynyl$ ,  $C_1-C_6-alkoxy$ , C<sub>3</sub>-C<sub>6</sub>-alkenyloxy, C<sub>3</sub>-C<sub>6</sub>-alkynyloxy, C<sub>1</sub>-C<sub>6</sub>-alkylthio, C<sub>3</sub>-C<sub>6</sub>-alkenylthio, C<sub>3</sub>-C<sub>6</sub>-alkynylthio, C<sub>1</sub>-C<sub>6</sub>-alkylsulfinyl, C3-C6-alkenylsulfinyl, C3-C6-alkynylsulfinyl, 25 C<sub>1</sub>-C<sub>6</sub>-alkylsulfonyl, C<sub>3</sub>-C<sub>6</sub>-alkenylsulfonyl, C<sub>3</sub>-C<sub>6</sub>-alkynylsulfonyl, C<sub>1</sub>-C<sub>6</sub>-haloalkyl, C<sub>2</sub>-C<sub>6</sub>-haloalkenyl,  $C_2$ - $C_6$ -haloalkynyl,  $C_1$ - $C_6$ -haloalkoxy,  $C_3$ - $C_6$ -haloalkenyloxy, C<sub>3</sub>-C<sub>6</sub>-haloalkynyloxy, C<sub>1</sub>-C<sub>6</sub>-haloalkylthio, C3-C6-haloalkenylthio, C3-C6-haloalkynylthio, 30 C<sub>1</sub>-C<sub>6</sub>-haloalkylsulfinyl, C<sub>3</sub>-C<sub>6</sub>-haloalkenylsulfinyl, C<sub>3</sub>-C<sub>6</sub>-haloalkynylsulfinyl, C<sub>1</sub>-C<sub>6</sub>-haloalkylsulfonyl, C<sub>3</sub>-C<sub>6</sub>-haloalkenylsulfonyl, C<sub>3</sub>-C<sub>6</sub>-haloalkynylsulfonyl, formyl, C1-C6-alkylcarbonyloxy,  $C_1-C_6-alkoxy-C_1-C_4-alkyl$ ,  $C_3-C_6-alkenyloxy-C_1-C_4-alkyl$ , 35  $C_3-C_4-alkynyloxy-C_1-C_4-alkyl$ ,  $C_1-C_6-alkylthio-C_1-C_4-alkyl$ , C<sub>3</sub>-C<sub>6</sub>-alkenylthio-C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>3</sub>-C<sub>4</sub>-alkynylthio-C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkylcarbonyl-C<sub>1</sub>-C<sub>4</sub>-alkyl,  $C_1-C_6-alkylcarbonyloxy-C_1-C_4-alkyl$ ,  $C_1-C_6-alkoxycarbonyl-C_1-C_4-alkyl$ , 40  $C_1-C_6-alkoxy-C_1-C_4-alkoxy$ ,  $C_3-C_6-alkenyloxy-C_1-C_4-alkoxy$ ,  $C_3-C_4-alkynyloxy-C_1-C_4-alkoxy$ ,  $C_1-C_6-alkylthio-C_1-C_4-alkoxy$ ,  $C_3-C_6-alkenylthio-C_1-C_4-alkoxy$ ,  $C_3-C_6-alkynylthio-C_1-C_4-alkoxy$ ,  $C_1-C_6-alkylcarbonyl-C_1-C_4-alkoxy$ ,  $C_1-C_6-alkylcarbonyloxy-C_1-C_4-alkoxy$ , 45 C<sub>1</sub>-C<sub>6</sub>-alkoxycarbonyl-C<sub>1</sub>-C<sub>4</sub>-alkoxy or CO-R<sup>16</sup>;

```
is hydrogen, halogen, mercapto, C1-C6-alkyl, C2-C6-alkenyl,
  R3
        C2-C6-alkynyl, C1-C6-alkylthio, C3-C6-alkenylthio,
        C_3-C_6-alkynylthio, C_1-C_6-alkylsulfinyl, C_3-C_6-alkenylsulfinyl,
        C_3-C_6-alkynylsulfinyl, C_1-C_6-alkylsulfonyl,
        C_3-C_6-alkenylsulfonyl, C_3-C_6-alkynylsulfonyl, C_1-C_6-haloalkyl,
5
        C2-C6-haloalkenyl, C2-C6-haloalkynyl, C1-C6-haloalkylthio,
        C<sub>3</sub>-C<sub>6</sub>-haloalkenylthio, C<sub>3</sub>-C<sub>6</sub>-haloalkynylthio,
        C_1-C_6-haloalkylsulfinyl, C_3-C_6-haloalkenylsulfinyl,
        C3-C6-haloalkynylsulfinyl, C1-C6-haloalkylsulfonyl,
        C3-C6-haloalkenylsulfonyl, C3-C6-haloalkynylsulfonyl,
10
        C_1-C_6-alkoxy-C_1-C_4-alkyl, C_3-C_6-alkenyloxy-C_1-C_4-alkyl,
        C_3-C_4-alkynyloxy-C_1-C_4-alkyl, C_1-C_6-alkylthio-C_1-C_4-alkyl,
        C_3-C_6-alkenylthio-C_1-C_4-alkyl, C_3-C_6-alkynylthio-C_1-C_4-alkyl,
        C1-C6-alkylcarbonyl-C1-C4-alkyl,
        C_1-C_6-alkylcarbonyloxy-C_1-C_4-alkyl,
15
        C<sub>1</sub>-C<sub>6</sub>-alkyloxycarbonyl-C<sub>1</sub>-C<sub>4</sub>-alkyl or CO-R<sup>16</sup>;
         is hydrogen, C2-C6-alkenyl, C2-C6-alkynyl or C1-C6-alkyl;
   Rб
         is hydrogen, halogen, C1-C6-alkyl, C2-C6-alkenyl,
20 R7
         C2-C6-alkynyl, C1-C6-haloalkyl, C2-C6-haloalkenyl or
         C_2-C_6-haloalkynyl;
         is methyl, ethyl, C1-C6-alkoxy or hydroxyl;
    R8
25
         is hydrogen or C1-C6-alkyl;
         is hydrogen, C_1-C_6-alkyl, C_1-C_6-alkoxycarbonyl or
         C<sub>1</sub>-C<sub>6</sub>-haloalkoxylcarbonyl;
 30
    R11 is halogen, mercapto, nitro, cyano, C1-C5-alkyl,
         C_2-C_6-alkenyl, C_2-C_6-alkynyl, C_1-C_6-alkoxy, C_3-C_6-alkenyloxy,
         C3-C6-alkynyloxy, C1-C6-alkylthio, C3-C6-alkenylthio,
         C_3-C_6-alkynylthio, C_1-C_6-alkylsulfinyl, C_3-C_6-alkenylsulfinyl,
         C3-C6-alkynylsulfinyl, C1-C6-alkylsulfonyl,
 35
         C_3-C_6-alkenylsulfonyl, C_3-C_6-alkynylsulfonyl, C_1-C_6-haloalkyl,
          C2-C6-haloalkenyl, C2-C6-haloalkynyl, C1-C6-haloalkoxy,
          C3-C6-haloalkenyloxy, C3-C6-haloalkynyloxy,
          C<sub>1</sub>-C<sub>6</sub>-haloalkylthio, C<sub>3</sub>-C<sub>6</sub>-haloalkenylthio,
          C3-C6-haloalkynylthio, C1-C6-haloalkylsulfinyl,
 40
          C3-C6-haloalkenylsulfinyl, C3-C6-haloalkynylsulfinyl,
          C<sub>1</sub>-C<sub>6</sub>-haloalkylsulfonyl, C<sub>3</sub>-C<sub>6</sub>-haloalkenylsulfonyl,
          C3-C6-haloalkynylsulfonyl,
          formyl, C1-C6-alkylcarbonyloxy,
          C_1-C_6-alkoxy-C_1-C_4-alkyl, C_2-C_6-alkenyloxy-C_1-C_4-alkyl,
 45
          C_3-C_4-alkynyloxy-C_1-C_4-alkyl, C_1-C_6-alkylthio-C_1-C_4-alkyl,
          C_2-C_6-alkenylthio-C_1-C_4-alkyl, C_3-C_4-alkynylthio-C_1-C_4-alkyl,
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C1-C6-alkylcarbonyl-C1-C4-alkyl,
        C<sub>1</sub>-C<sub>6</sub>-alkylcarbonyloxy-C<sub>1</sub>-C<sub>4</sub>-alkyl,
        C_1-C_6-alkyloxycarbonyl-C_1-C_4-alkyl,
        C_1-C_6-alkoxy-C_1-C_4-alkoxy, C_3-C_6-alkenyloxy-C_1-C_4-alkoxy,
        C_3-C_4-alkynyloxy-C_1-C_4-alkoxy, C_1-C_6-alkylthio-C_1-C_4-alkoxy,
5
        C_3-C_6-alkenylthio-C_1-C_4-alkoxy, C_3-C_6-alkynylthio-C_1-C_4-alkoxy,
        C1-C6-alkylcarbonyl-C1-C4-alkoxy,
        C_1-C_6-alkylcarbonyloxy-C_1-C_4-alkoxy,
        C_1-C_6-alkyloxycarbonyl-C_1-C_4-alkoxy or CO-R^{16};
10
   R12 and R14 independently of one another are hydrogen, halogen,
         hydroxyl, mercapto, cyano, C1-C6-alkyl, C2-C6-alkenyl,
         C_2-C_6-alkynyl, C_1-C_6-alkoxy, C_3-C_6-alkenyloxy,
         C3-C6-alkynyloxy, C1-C6-alkylthio, C3-C6-alkenylthio,
         C<sub>3</sub>-C<sub>6</sub>-alkynylthio, C<sub>1</sub>-C<sub>6</sub>-alkylsulfinyl, C<sub>3</sub>-C<sub>6</sub>-alkenylsulfinyl,
15
         C3-C6-alkynylsulfinyl, C1-C6-alkylsulfonyl,
         C<sub>3</sub>-C<sub>6</sub>-alkenylsulfonyl, C<sub>3</sub>-C<sub>6</sub>-alkynylsulfonyl, C<sub>1</sub>-C<sub>6</sub>-haloalkyl,
         C_3-C_6-haloalkenyl, C_2-C_6-haloalkynyl, C_1-C_6-haloalkoxy,
         C<sub>3</sub>-C<sub>6</sub>-haloalkenyloxy, C<sub>3</sub>-C<sub>6</sub>-haloalkynyloxy,
         C1-C6-haloalkylthio, C2-C6-haloalkenylthio,
20
         C3-C6-haloalkynylthio, C1-C6-haloalkylsulfinyl,
         C3-C6-haloalkenylsulfinyl, C3-C6-haloalkynylsulfinyl,
         C1-C6-haloalkylsulfonyl, C3-C6-haloalkenylsulfonyl,
         C3-C6-haloalkynylsulfonyl,
         formyl, C1-C6-alkylcarbonyloxy,
25
         C_1-C_6-alkoxy-C_1-C_4-alkyl, C_3-C_6-alkenyloxy-C_1-C_4-alkyl,
         C_3-C_4-alkynyloxy-C_1-C_4-alkyl, C_1-C_6-alkylthio-C_1-C_4-alkyl,
         C_3-C_6-alkenylthio-C_1-C_4-alkyl, C_3-C_4-alkynylthio-C_1-C_4-alkyl,
         C_1-C_6-alkylcarbonyl-C_1-C_4-alkyl,
         C_1-C_6-alkylcarbonyloxy-C_1-C_4-alkyl,
30
         C_1-C_6-alkyloxycarbonyl-C_1-C_4-alkyl,
         C_1-C_6-alkoxy-C_1-C_4-alkoxy, C_3-C_6-alkenyloxy-C_1-C_4-alkoxy,
         C_3-C_4-alkynyloxy-C_1-C_4-alkoxy, C_1-C_6-alkylthio-C_1-C_4-alkoxy,
         C_3-C_6-alkenylthio-C_1-C_4-alkoxy, C_3-C_6-alkynylthio-C_1-C_4-alkoxy,
         C_1-C_6-alkylcarbonyl-C_1-C_4-alkoxy,
 35
          C_1-C_6-alkylcarbonyloxy-C_1-C_4-alkoxy,
          C1-C6-alkyloxycarbonyl-C1-C4-alkoxy or CO-R16; and
         is hydrogen, hydroxyl, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>2</sub>-C<sub>6</sub>-alkenyl,
          C2-C6-alkynyl, C1-C6-haloalkyl, C2-C6-haloalkenyl,
 40
          C_2-C_6-haloalkynyl, C_1-C_6-alkoxy, C_3-C_6-alkenyloxy,
          C_3-C_6-alkynyloxy, C_1-C_6-haloalkoxy, C_1-C_6-alkylamino or
          di(C_1-C_6-alkyl) amino;
```

45 or

R<sup>7</sup> together with R<sup>10</sup> forms a C<sub>3</sub>-C<sub>4</sub>-alkylene or -alkenylene chain, where the C<sub>3</sub>-C<sub>4</sub>-alkylene or -alkenylene chain may carry 1-3 substituents from the group consisting of halogen, nitro or cyano and/or one carbon atom of the C<sub>3</sub>-C<sub>4</sub>-alkylene chain may be replaced by a heteroatom selected from the group consisting of oxygen, sulfur and nitrogen and/or by a carbonyl group,

and the agriculturally useful salts of the compounds I.

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5

Moreover, the invention relates to

- · the use of the compounds I as herbicides,
- 15 herbicidal compositions which comprise the compounds I as active substances,
  - processes for preparing the compounds I and for preparing herbicidal compositions using the compounds I, and also

20

- methods for controlling undesirable vegetation using the compounds I and/or
- · for controlling the growth of plants,

25

- compositions for regulating the growth of plants, which compositions comprise the compounds I as active substances,
- of plants using the compounds I, and also
  - methods for regulating the growth of plants using the compounds I.
- Numerous amino acid derivatives are disclosed in the literature; wo 01/21584, for example, describes tyrosine derivatives which can be used for treating chronic inflammatory conditions.
- 40 EP-A 805 147 discloses amino acid derivatives which can be used as calcium channel modulators.

WO 97/19908 describes phenylalanine derivatives whose phenyl ring is preferably substituted by fluorine and which can be used as fungicides.

4JP-A 02088549 teaches derivatives of amino acids which are preferably derived from proline, serine or threonine. The compounds described have antithrombotic action.

5 WO 97/05865 discloses amino acid derivatives which are preferably  $SO_2$ -substituted at the amino group group and are used as C-proteinase inhibitors.

DE-A 33 326 333 discloses carboxylic acid derivatives suitable 10 for preparing medicaments.

JP 3294-253-A teaches amino acid derivatives as inhibitors of cholecystokinin and gastrin receptors.

15 It is an object of the present invention to provide herbicidally active compounds.

The object also extends to the provision of compounds suitable for regulating the growth of plants.

20 We have found that this object is achieved by providing the phenylalanine derivatives of the formula I defined at the outset.

Furthermore, it has been found that the compounds I are also suitable for regulating the growth of plants. In this respect, we 25 have found compositions for regulating the growth of plants, processes for preparing these compositions and methods for regulating the growth of plants using the compounds I.

Owing to the asymmetrically substituted  $\alpha$ -carbon, these compounds 30 are present either as racemates, enantiomer mixtures or as pure enantiomers and may, if they carry chiral substituents on the  $\alpha$ -carbon or have further centers of chirality, also be present as diastereomer mixtures. Furthermore, depending on the substitution pattern, the compounds I can also be present as diastereomer 35 mixtures. Preference is given to compounds of the formula I in which the  $\alpha$ -carbon has the S configuration. Hereinbelow, these compounds are also referred to as S enantiomers.

Suitable agriculturally useful salts are especially the salts of 40 those cations or the acid addition salts of those acids whose cations and anions, respectively, have no adverse effect on the herbicidal action of the compounds I. Thus, suitable cations are in particular the ions of the alkali metals, preferably sodium and potassium, of the alkaline earth metals, preferably calcium,

45 magnesium and barium, and of the transition metals, preferably manganese, copper, zinc and iron, and also the ammonium ion which, if desired, may carry one to four  $C_1$ - $C_4$ -alkyl substituents

and/or one phenyl or benzyl substituent, preferably diisopropylammonium, tetramethylammonium, tetrabutylammonium, trimethylbenzylammonium, furthermore phosphonium ions, sulfonium ions, preferably  $tri(C_1-C_4-alkyl)$  sulfonium, and sulfoxonium ions, preferably  $tri(C_1-C_4-alkyl)$  sulfoxonium.

Anions of useful acid addition salts are primarily chloride, bromide, fluoride, hydrogen sulfate, sulfate, dihydrogen phosphate, hydrogen phosphate, phosphate, nitrate, bicarbonate, carbonate, hexafluorosilicate, hexafluorophosphate, benzoate, and also the anions of C<sub>1</sub>-C<sub>4</sub>-alkanoic acids, preferably formate, acetate, propionat and butyrate. They can be formed by reacting I with an acid of the corresponding anion, preferably of hydrochloric acid, hydrobromic acid, sulfuric acid, phosphoric acid or nitric acid.

The organic moieties mentioned in the definition of the substituents R<sup>1</sup> to R<sup>15</sup> are — like the term halogen — collective terms for individual enumerations of the individual group 20 members. All hydrocarbon chains, i.e. all alkyl, alkenyl, alkynyl, haloalkyl, haloalkenyl, haloalkynyl moieties, can be straight—chain or branched. Halogenated substituents preferably carry one to five identical or different halogen atoms. The term halogen denotes in each case fluorine, chlorine, bromine or iodine.

## Examples of meanings are:

- halogen is fluorine, chlorine or bromine;
- 30
  - C<sub>1</sub>-C<sub>4</sub>-alkyl is methyl, ethyl, n-propyl, 1-methylethyl, n-butyl, 1-methylpropyl, 2-methylpropyl or 1,1-dimethylethyl;
- C<sub>1</sub>-C<sub>6</sub>-alkyl is a C<sub>1</sub>-C<sub>4</sub>-alkyl radical as mentioned above or, for example, n-pentyl, 1-methylbutyl, 2-methylbutyl, 3-methylbutyl, 2,2-dimethylpropyl, 1-ethylpropyl, n-hexyl, 1,1-dimethylpropyl, 1,2-dimethylpropyl, 1-methylpentyl, 2-methylpentyl, 3-methylpentyl, 4-methylpentyl, 1,1-dimethylbutyl, 1,2-dimethylbutyl, 1,3-dimethylbutyl, 2,2-dimethylbutyl, 2,3-dimethylbutyl, 3,3-dimethylbutyl, 1-ethylbutyl, 2-ethylbutyl, 1,1,2-trimethylpropyl, 1,2,2-trimethylpropyl,
- 2-ethylbutyl, 1,1,2-trimethylpropyl, 1,2,2-trimethylpropyl,
  1-ethyl-1-methylpropyl or 1-ethyl-2-methylpropyl;
- C<sub>3</sub>-C<sub>4</sub>-alkenyl is a mono- or diethylenically unsaturated radical having 3 or 4 carbon atoms, such as prop-1-en-1-yl, allyl, 1-methylethenyl, but-1-en-1-yl, but-1-en-2-yl, but-1-en-3-yl,

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but-2-en-1-yl, 1-methylprop-1-en-1-yl, 2-methylprop-1-en-1-yl,
     1-methylprop-2-en-1-yl or 2-methylprop-2-en-1-yl;
   - C_5-C_6-alkenyl is a C_3-C_4-alkenyl radical as mentioned above or
     is a mono- or polyethylenically unsaturated radical having 5 or
     6 carbon atoms, such as, for example, n-penten-1-yl,
     n-penten-2-yl, n-penten-3-yl, n-penten-4-yl,
     1-methylbut-1-en-1-yl, 2-methylbut-1-en-1-yl,
     3-methylbut-1-en-1-yl, 1-methylbut-2-en-1-yl,
     2-methylbut-2-en-1-yl, 3-methylbut-2-en-1-yl,
10
     1-methylbut-3-en-1-yl, 2-methylbut-3-en-1-yl,
     3-methylbut-3-en-1-yl, 1,1-dimethylprop-2-en-1-yl,
     1,2-dimethyl-prop-1-en-1-yl, 1,2-dimethylprop-2-en-1-yl,
     1-ethylprop-1-en-2-yl, 1-ethylprop-2-en-1-yl, n-hex-1-en-1-yl,
     n-hex-2-en-1-yl, n-hex-3-en-1-yl, n-hex-4-en-1-yl,
15
     n-hex-5-en-1-yl, 1-methylpent-1-en-1-yl,
     2-methylpent-1-en-1-yl, 3-methylpent-1-en-1-yl,
     4-methylpent-1-en-1-yl, 1-methylpent-2-en-1-yl,
     2-methylpent-2-en-1-yl, 3-methylpent-2-en-1-yl,
     4-methylpent-2-en-1-yl, 1-methylpent-3-en-1-yl,
20
     2-methylpent-3-en-1-yl, 3-methylpent-3-en-1-yl,
     4-methylpent-3-en-1-yl, 1-methylpent-4-en-1-yl,
     2-methylpent-4-en-1-yl, 3-methylpent-4-en-1-yl,
     4-methylpent-4-en-1-yl, 1,1-dimethylbut-2-en-1-yl,
     1,1-dimethylbut-3-en-1-yl, 1,2-dimethylbut-1-en-1-yl,
25
     1,2-dimethylbut-2-en-1-yl, 1,2-dimethylbut-3-en-1-yl,
     1,3-dimethylbut-1-en-1-yl, 1,3-dimethyl-but-2-en-1-yl,
     1,3-dimethylbut-3-en-1-yl, 2,2-dimethylbut-3-en-1-yl,
     2,3-dimethylbut-1-en-1-yl, 2,3-dimethylbut-2-en-1-yl,
     2,3-dimethylbut-3-en-1-yl, 3,3-dimethylbut-1-en-1-yl,
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     3,3-dimethylbut-2-en-1-yl, 1-ethylbut-1-en-1-yl,
     1-ethylbut-2-en-1-yl, 1-ethylbut-3-en-1-yl,
     2-ethylbut-1-en-1-yl, 2-ethylbut-2-en-1-yl,
     2-ethylbut-3-en-1-yl, 1,1,2-trimethylprop-2-en-1-yl,
     1-ethyl-1-methylprop-2-en-1-yl, 1-ethyl-2-methylprop-1-en-1-yl
35
     or 1-ethyl-2-methylprop-2-en-1-yl;
   - C_2-C_6-alkenyl is a C_3-C_6-alenylkyl radical as mentioned above or
     ethenyl;
40 - C_2-C_4-alkenyl is a C_3-C_4-alenylkyl radical as mentioned above or
     ethenyl;
   - C<sub>2</sub>-C<sub>4</sub>-alkynyl is: ethynyl, prop-1-yn-1-yl, prop-2-yn-1-yl,
     n-but-1-yn-1-yl, n-but-1-yn-3-yl, n-but-1-yn-4-yl or
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     n-but-2-yn-1-yl;
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- C<sub>3</sub>-C<sub>6</sub>-alkynyl is a C<sub>2</sub>-C<sub>4</sub>-alkynyl radical as mentioned above or n-pent-1-yn-1-yl, n-pent-1-yn-3-yl, n-pent-1-yn-4-yl, n-pent-2-yn-5-yl, n-pent-2-yn-1-yl, n-pent-2-yn-4-yl, n-pent-2-yn-5-yl, 3-methylbut-1-yn-3-yl, 3-methylbut-1-yn-4-yl, n-hex-1-yn-1-yl, n-hex-1-yn-3-yl, n-hex-1-yn-4-yl, n-hex-2-yn-4-yl, n-hex-1-yn-6-yl, n-hex-2-yn-1-yl, n-hex-3-yn-1-yl, n-hex-2-yn-5-yl, n-hex-2-yn-6-yl, n-hex-3-yn-1-yl, n-hex-3-yn-2-yl, 3-methylpent-1-yn-1-yl, 3-methylpent-1-yn-3-yl, 3-methylpent-1-yn-4-yl, 4-methylpent-2-yn-4-yl and 4-methylpent-2-yn-5-yl;
  - C<sub>2</sub>-C<sub>6</sub>-alkynyl is a C<sub>3</sub>-C<sub>6</sub>-alkynylkyl radical as mentioned above or ethynyl;
- C<sub>3</sub>-C<sub>6</sub>-alkenyloxy is a C<sub>3</sub>-C<sub>6</sub>-alkenyl radical as mentioned above which is attached to the skeleton via an oxygen atom (-O-);
- $C_1$ - $C_4$ -alkoxy is a  $C_1$ - $C_4$ -alkyl radical as mentioned above which is attached to the skeleton via an oxygen atom (-0-);
  - $C_1$ - $C_6$ -alkoxy is a  $C_1$ - $C_6$ -alkyl radical as mentioned above which is attached to the skeleton via an oxygen atom (-0-);
- C<sub>3</sub>-C<sub>6</sub>-alkenyloxy is a C<sub>3</sub>-C<sub>6</sub>-alkenyl radical as mentioned above which is attached to the skeleton via an oxygen atom (-O-);
  - $C_3$ - $C_6$ -alkynyloxy is a  $C_3$ - $C_6$ -alkynyl radical as mentioned above which is attached to the skeleton via an oxygen atom (-O-);
- $^{30}$   $C_1$ - $C_6$ -alkylthio is a  $C_1$ - $C_6$ -alkyl radical as mentioned above which is attached to the skeleton via a sulfur atom (-S-);
  - C<sub>3</sub>-C<sub>6</sub>-alkenylthio is a C<sub>3</sub>-C<sub>6</sub>-alkenyl radical as mentioned above which is attached to the skeleton via a sulfur atom (-S-);
  - $C_3$ - $C_6$ -alkynylthio is a  $C_3$ - $C_6$ -alkynyl radical as mentioned above which is attached to the skeleton via a sulfur atom (-S-);
- $C_1$ - $C_6$ -alkylsulfinyl is a  $C_1$ - $C_6$ -alkyl radical as mentioned above which is attached to the skeleton via a sulfinyl group (-SO-);
  - C<sub>3</sub>-C<sub>6</sub>-alkenylsulfinyl is a C<sub>3</sub>-C<sub>6</sub>-alkenyl radical as mentioned above which is attached to the skeleton via a sulfinyl group (-SO-);

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- C<sub>3</sub>-C<sub>6</sub>-alkynylsulfinyl is a C<sub>3</sub>-C<sub>6</sub>-alkynyl radical as mentioned above which is attached to the skeleton via a sulfinyl group (-SO-);
- $5 C_1-C_6$ -alkylsulfonyl is a  $C_1-C_6$ -alkyl radical as mentioned above which is attached to the skeleton via a sulfonyl group (-SO<sub>2</sub>-);
- C<sub>3</sub>-C<sub>6</sub>-alkenylsulfonyl is a C<sub>3</sub>-C<sub>6</sub>-alkenyl radical as mentioned above which is attached to the skeleton via a sulfonyl group
   (-SO<sub>2</sub>-);
  - C<sub>3</sub>-C<sub>6</sub>-alkynylsulfonyl is a C<sub>3</sub>-C<sub>6</sub>-alkynyl radical as mentioned above which is attached to the skeleton via a sulfonyl group (-SO<sub>2</sub>-);
- C<sub>1</sub>-C<sub>4</sub>-haloalkyl is a C<sub>1</sub>-C<sub>4</sub>-alkyl radical as mentioned above which is partially or fully substituted by fluorine, chlorine, bromine and/or iodine, i.e., for example, chloromethyl, dichloromethyl, trichloromethyl, fluoromethyl, difluoromethyl, trifluoromethyl, chlorfluoromethyl, dichlorofluoromethyl,
- chlorodifluoromethyl, 2-fluoroethyl, 2-chloroethyl,
  2-bromoethyl, 2-iodoethyl, 2,2-difluoroethyl,
  2,2,2-trifluoroethyl, 2-chloro-2-fluoroethyl,
  2-chloro-2,2-difluoroethyl, 2,2-dichloro-2-fluoroethyl,
- 2,2,2-trichloroethyl, pentafluoroethyl, 2-fluoropropyl, 3-fluoropropyl, 2,2-difluoropropyl, 2,3-difluoropropyl, 2-chloropropyl, 3-chloropropyl, 2,3-dichloropropyl, 2-bromopropyl, 3-bromopropyl, 3,3,3-trifluoropropyl, 3,3,3-trichloropropyl, 2,2,3,3,3-pentafluoropropyl, heptafluoropropyl, 1-(fluoromethyl)-2-fluoroethyl,
- 1-(chloromethyl)-2-chloroethyl, 1-(bromomethyl)-2-bromoethyl,
  4-fluorobutyl, 4-chlorobutyl, 4-bromobutyl or nonafluorobutyl,
  in particular chloromethyl, fluoromethyl, difluoromethyl,
  trifluoromethyl, 2-fluoroethyl, 2-chloroethyl or
  2,2,2-trifluoroethyl;
  - C<sub>1</sub>-C<sub>6</sub>-haloalkyl is a C<sub>1</sub>-C<sub>6</sub>-alkyl radical as mentioned above which is partially or fully substituted by fluorine, chlorine, bromine and/or iodine, i.e. for example, one of the radicals mentioned under C<sub>1</sub>-C<sub>4</sub>-haloalkyl or 5-fluoro-1-pentyl,
- 5-chloro-1-pentyl, 5-bromo-1-pentyl, 5-iodo-1-pentyl, 5,5,5-trichloro-1-pentyl, undecafluoropentyl, 6-fluoro-1-hexyl, 6-chloro-1-hexyl, 6-bromo-1-hexyl, 6-iodo-1-hexyl, 6,6,6-trichloro-1-hexyl or dodecafluorohexyl;

- C<sub>2</sub>-C<sub>6</sub>-haloalkenyl is a C<sub>2</sub>-C<sub>6</sub>-alkenyl radical as mentioned above in which some or all of the hydrogen atoms may be replaced by halogen atoms as mentioned above, in particular by fluorine, chlorine and bromine;
- C<sub>2</sub>-C<sub>6</sub>-haloalkynyl is a C<sub>2</sub>-C<sub>6</sub>-alkynyl radical as mentioned above in which some or all of the hydrogen atoms may be replaced by halogen atoms as mentioned above, in particular by fluorine, chlorine and bromine;
- $C_1$ - $C_6$ -haloalkoxy is a  $C_1$ - $C_6$ -haloalkyl radical as mentioned above which is attached to the skeleton via an oxygen atom (-O-);
- C<sub>3</sub>-C<sub>6</sub>-haloalkenyloxy is a C<sub>3</sub>-C<sub>6</sub>-alkenyloxy radical as mentioned above which is partially or fully substituted by fluorine, chlorine, bromine and/or iodine;
- C<sub>3</sub>-C<sub>6</sub>-haloalkynyloxy is a C<sub>3</sub>-C<sub>6</sub>-alkynyloxy radical as mentioned above which is partially or fully substituted by fluorine, chlorine, bromine and/or iodine;
  - C<sub>1</sub>-C<sub>6</sub>-haloalkylthio is a C<sub>1</sub>-C<sub>6</sub>-haloalkyl radical as mentioned above which is attached to the skeleton via a sulfur atom (-S-);
- 25 \_ C<sub>3</sub>-C<sub>6</sub>-haloalkenylthio is a C<sub>3</sub>-C<sub>6</sub>-haloalkenyl radical as mentioned above which is attached to the skeleton via a sulfur atom (-S-);
- C<sub>3</sub>-C<sub>6</sub>-haloalkynylthio is a C<sub>3</sub>-C<sub>6</sub>-haloalkynyl radical as
  mentioned above is attached to the skeleton via a sulfur atom
  (-S-);
- C<sub>1</sub>-C<sub>6</sub>-haloalkylsulfinyl is a C<sub>1</sub>-C<sub>6</sub>-haloalkyl radical as mentioned above which is attached to the skeleton via a sulfinyl group (-SO-);
  - $C_3$ - $C_6$ -haloalkenylsulfinyl is a  $C_3$ - $C_6$ -haloalkenyl radical as mentioned above which is attached to the skeleton via a sulfinyl group (-SO-);
  - C<sub>3</sub>-C<sub>6</sub>-haloalkynylsulfinyl is a C<sub>3</sub>-C<sub>6</sub>-haloalkynyl radical as mentioned above which is attached to the skeleton via a sulfinyl group (-SO-);

- C<sub>1</sub>-C<sub>6</sub>-haloalkylsulfonyl is a C<sub>1</sub>-C<sub>6</sub>-haloalkyl radical as mentioned above which is attached to the skeleton via a sulfonyl group (-SO<sub>2</sub>-);
- 5 C<sub>3</sub>-C<sub>6</sub>-haloalkenylsulfonyl is a C<sub>3</sub>-C<sub>6</sub>-haloalkenyl radical as mentioned above which is attached to the skeleton via a sulfonyl group (-SO<sub>2</sub>-);
- C<sub>3</sub>-C<sub>6</sub>-haloalkynylsulfonyl is a C<sub>3</sub>-C<sub>6</sub>-haloalkynyl radical as mentioned above which is attached to the skeleton via a sulfonyl group (-SO<sub>2</sub>-);
- C<sub>1</sub>-C<sub>6</sub>-alkylcarbonyloxy is a C<sub>1</sub>-C<sub>6</sub>-alkyl radical which is attached to the skeleton via a carbonyloxy group (-C(0)-O-) via the oxygen;
  - $C_1$ - $C_6$ -alkoxy- $C_1$ - $C_4$ -alkyl is a  $C_1$ - $C_4$ -alkyl radical as mentioned above which is substituted by a  $C_1$ - $C_6$ -alkoxy radical as mentioned above, for example methoxymethyl, ethoxymethyl,
- n-propoxymethyl, i-propoxymethyl, n-butoxymethyl,
  (1-methylpropoxy)methyl, (2-methylpropoxy)methyl,
  t-butoxymethyl, 2-(methoxy)ethyl, 2-(ethoxy)ethyl,
  2-(n-propoxy)ethyl, 2-(1-methylethoxy)ethyl, 2-(n-butoxy)ethyl,
  2-(1-methylpropoxy)ethyl, 2-(2-methylpropoxy)ethyl,
- 2-(1,1-dimethylethoxy)ethyl, 2-(methoxy)propyl,
  2-(ethoxy)propyl, 2-(n-propoxy)propyl,
  2-(1-methylethoxy)propyl, 2-(n-butoxy)propyl, 2-(1-methylpropoxy)propyl, 2-(2-methylpropoxy)propyl,
  2-(1,1-dimethylethoxy)propyl, 3-(methoxy)propyl, 3-(ethoxy)propyl, 3-(n-propoxy)propyl, 3-(1-methylethoxy)propyl,
- 3-(n-butoxy)propyl, 3-(1-methylpropoxy)propyl,
  3-(2-methylpropoxy)propyl, 3-(1,1-dimethylethoxy)propyl,
  2-(methoxy)butyl, 2-(ethoxy)butyl, 2-(n-propoxy)butyl,
  2-(1-methylethoxy)butyl, 2-(n-butoxy)butyl,
- 2-(1-methylpropoxy)butyl, 2-(2-methylpropoxy)butyl,
- 2-(1,1-dimethylethoxy)butyl, 3-(methoxy)butyl, 3-(ethoxy)butyl, 3-(n-propoxy)butyl, 3-(1-methylethoxy)butyl, 3-(n-butoxy)butyl, 3-(1-methylpropoxy)butyl, 3-(2-methylpropoxy)butyl, 3-(1,1-dimethylethoxy)butyl, 4-(methoxy)butyl, 4-(ethoxy)butyl, 4-(n-propoxy)butyl, 4-(1-methylethoxy)butyl, 4-(n-butoxy)butyl,
- 40 4-(1-methylpropoxy)butyl, 4-(2-methylpropoxy)butyl or 4-(1,1-dimethylethoxy)butyl;
- C<sub>3</sub>-C<sub>6</sub>-alkenyloxy-C<sub>1</sub>-C<sub>4</sub>-alkyl is a C<sub>1</sub>-C<sub>4</sub>-alkyl radical as mentioned above which is substituted by a C<sub>3</sub>-C<sub>6</sub>-alkenyloxy
   radical as mentioned above;

- $C_3$ - $C_4$ -alkynyloxy- $C_1$ - $C_4$ -alkyl is a  $C_1$ - $C_4$ -alkyl radical as mentioned above which is substituted by a  $C_3$ - $C_4$ -alkynyloxy radical as mentioned above;
- 5 C<sub>1</sub>-C<sub>6</sub>-alkylthio-C<sub>1</sub>-C<sub>4</sub>-alkyl is a C<sub>1</sub>-C<sub>4</sub>-alkyl radical as mentioned above which is substituted by a C<sub>1</sub>-C<sub>6</sub>-alkylthio radical as mentioned above;
- C<sub>3</sub>-C<sub>6</sub>-alkenylthio-C<sub>1</sub>-C<sub>4</sub>-alkyl is a C<sub>1</sub>-C<sub>4</sub>-alkyl radical as mentioned above which is substituted by a C<sub>3</sub>-C<sub>6</sub>-alkenylthio radical as mentioned above;
- C<sub>3</sub>-C<sub>4</sub>-alkynylthio-C<sub>1</sub>-C<sub>4</sub>-alkyl is a C<sub>1</sub>-C<sub>4</sub>-alkyl radical as mentioned above which is substituted by a C<sub>3</sub>-C<sub>6</sub>-alkynylthio radical as mentioned above;
  - C<sub>1</sub>-C<sub>6</sub>-alkylcarbonyl is a C<sub>1</sub>-C<sub>6</sub>-alkyl radical as mentioned above which is attached to the skeleton via a carbonyl group (-CO-);
- C<sub>1</sub>-C<sub>6</sub>-alkoxycarbonyl is a C<sub>1</sub>-C<sub>6</sub>-alkoxy radical as mentioned above which is attached to the skeleton via a carbonyl group (-CO-);
- C<sub>1</sub>-C<sub>6</sub>-alkylcarbonyl-C<sub>1</sub>-C<sub>4</sub>-alkyl is a C<sub>1</sub>-C<sub>4</sub>-alkyl radical as mentioned above which is substituted by a C<sub>1</sub>-C<sub>6</sub>-alkylcarbonyl radical as mentioned above;
  - $C_1$ - $C_6$ -alkoxycarbonyl- $C_1$ - $C_4$ -alkyl is a  $C_1$ - $C_4$ -alkyl radical as mentioned above which is substituted by a  $C_1$ - $C_6$ -alkoxycarbonyl radical as mentioned above;
  - $C_1$ - $C_6$ -alkoxy- $C_1$ - $C_4$ -alkyl is a  $C_1$ - $C_4$ -alkyl radical which is substituted by  $C_1$ - $C_6$ -alkoxy as mentioned above, where the alkyl radical is defined as mentioned above;
- 35  $\_$  C<sub>3</sub>-C<sub>6</sub>-alkenyloxy-C<sub>1</sub>-C<sub>4</sub>-alkyl is a C<sub>1</sub>-C<sub>4</sub>-alkyl radical which is substituted by C<sub>3</sub>-C<sub>6</sub>-alkenyloxy as mentioned above, where the C<sub>1</sub>-C<sub>4</sub>-alkyl radical is defined as mentioned above;
- C<sub>3</sub>-C<sub>6</sub>-alkynyloxy-C<sub>1</sub>-C<sub>4</sub>-alkyl is a C<sub>1</sub>-C<sub>4</sub>-alkyl radical which is substituted by C<sub>3</sub>-C<sub>6</sub>-alkynyloxy as mentioned above, where the C<sub>1</sub>-C<sub>4</sub>-alkyl radical is defined as mentioned above;
- C<sub>1</sub>-C<sub>6</sub>-alkylthio-C<sub>1</sub>-C<sub>4</sub>-alkyl is a C<sub>1</sub>-C<sub>4</sub>-alkyl radical which is substituted by C<sub>1</sub>-C<sub>6</sub>-alkylthio as mentioned above, where the
   C<sub>1</sub>-C<sub>4</sub>-alkyl radical is defined as mentioned above;

- $C_1$ - $C_6$ -alkoxy- $C_1$ - $C_4$ -alkoxy is a  $C_1$ - $C_6$ -alkoxy radical which is substituted by  $C_1$ - $C_4$ -alkoxy as mentioned above, where the  $C_1$ - $C_4$ -alkoxy radical is defined as mentioned above;
- $5 C_3-C_6$ -alkenyloxy- $C_1-C_4$ -alkoxy is a  $C_1-C_4$ -alkoxy radical which is substituted by  $C_3-C_6$ -alkenyloxy as mentioned above, where the  $C_1-C_4$ -alkoxy radical is defined as mentioned above;
- C<sub>3</sub>-C<sub>4</sub>-alkynyloxy-C<sub>1</sub>-C<sub>4</sub>-alkoxy is a C<sub>1</sub>-C<sub>4</sub>-alkoxy radical which is substituted by C<sub>3</sub>-C<sub>4</sub>-alkynyloxy as mentioned above, where the C<sub>1</sub>-C<sub>4</sub>-alkoxy radical is defined as mentioned above;
- C<sub>1</sub>-C<sub>6</sub>-alkylthio-C<sub>1</sub>-C<sub>4</sub>-alkoxy is a C<sub>1</sub>-C<sub>4</sub>-alkoxy radical which is substituted by C<sub>1</sub>-C<sub>6</sub>-alkylthio as mentioned above, where the C<sub>1</sub>-C<sub>4</sub>-alkoxy radical is defined as mentioned above;
  - $C_3$ - $C_6$ -alkenylthio- $C_1$ - $C_4$ -alkoxy is a  $C_1$ - $C_4$ -alkoxy radical which is substituted by  $C_3$ - $C_6$ -alkenylthio as mentioned above where the  $C_1$ - $C_4$ -alkoxy radical is defined as mentioned above;
- $_{\rm C_3-C_6-alkynylthio-C_1-C_4-alkoxy}$  is a  $C_{\rm 1}-C_{\rm 4}-alkoxy$  radical which is substituted by  $C_{\rm 3}-C_{\rm 6}-alkynylthio$  as mentioned above where the  $C_{\rm 1}-C_{\rm 4}-alkoxy$  radical is defined as mentioned above;
- $\begin{array}{lll} & C_1-C_6-alkylcarbonyl-C_1-C_4-alkoxy \text{ is a } C_1-C_4-alkoxy \text{ radical which} \\ & \text{is substituted by } C_1-C_6-alkylcarbonyl \text{ as mentioned above where} \\ & \text{the } C_1-C_4-alkoxy \text{ radical is defined as mentioned above;} \end{array}$
- C<sub>1</sub>-C<sub>6</sub>-alkylcarbonyloxy-C<sub>1</sub>-C<sub>4</sub>-alkoxy is a C<sub>1</sub>-C<sub>4</sub>-alkoxy radical which is substituted by C<sub>1</sub>-C<sub>6</sub>-alkylcarbonyloxy as mentioned above where the C<sub>1</sub>-C<sub>4</sub>-alkoxy radical is defined as mentioned above;
- C<sub>1</sub>-C<sub>6</sub>-alkoxycarbonyl-C<sub>1</sub>-C<sub>4</sub>-alkoxy is a C<sub>1</sub>-C<sub>4</sub>-alkoxy radical which is substituted by C<sub>1</sub>-C<sub>6</sub>-alkoxycarbonyl as mentioned above where the C<sub>1</sub>-C<sub>4</sub>-alkoxy radical is defined as mentioned above;
  - C<sub>3</sub>-C<sub>4</sub>-alkylene is n-propylene (-CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-) or n-butylene (-CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-);
- 40 C<sub>3</sub>-C<sub>4</sub>-alkenylene is a divalent unbranched chain of one or two CH=CH- groups and/or one or two CH<sub>2</sub> groups in any position, for example -CH=CHCH<sub>2</sub>-, CH<sub>2</sub>CH=CHCH<sub>2</sub>, CH=CHCH<sub>2</sub>CH<sub>2</sub> or CH=CH-CH=CH<sub>2</sub>;
- 45 C<sub>1</sub>-C<sub>4</sub>-alkylamino is a C<sub>1</sub>-C<sub>4</sub>-alkyl radical as mentioned above which is attached to the skeleton via an amino group (-NH-);

- $C_1$ - $C_6$ -alkylamino is a  $C_1$ - $C_6$ -alkyl radical as mentioned above which is attached to the skeleton via an amino group (-NH-);
- C<sub>1</sub>-C<sub>4</sub>-dialkylamino are two independent C<sub>1</sub>-C<sub>4</sub>-alkyl radicals as mentioned above which are attached to the skeleton via a nitrogen atom (>N-);
- C<sub>1</sub>-C<sub>6</sub>-dialkylamino are two independent C<sub>1</sub>-C<sub>6</sub>-alkyl radicals as mentioned above which are attached to the skeleton via a
   nitrogen atom (>N-).

With respect to the use of the substituted phenylalanine derivatives I as herbicides, preference is given to those compounds I in which the substituents are as defined above, in each case on their own or in combination:

- is hydrogen, halogen, nitro, cyano,  $C_1-C_6-alkyl$ ,  $C_2-C_6-alkenyl$ ,  $C_2-C_6-alkenyl$ ,  $C_1-C_6-alkoxy$ ,  $C_3-C_6-alkynyloxy$ ,  $C_1-C_6-alkylthio$ ,  $C_3-C_6-alkenylthio$ ,
- C<sub>3</sub>-C<sub>6</sub>-alkynylthio, C<sub>1</sub>-C<sub>6</sub>-alkylsulfinyl, C<sub>3</sub>-C<sub>6</sub>-alkenylsulfinyl, C<sub>3</sub>-C<sub>6</sub>-alkynylsulfinyl, C<sub>1</sub>-C<sub>6</sub>-alkylsulfonyl, C<sub>3</sub>-C<sub>6</sub>-alkenylsulfonyl, C<sub>3</sub>-C<sub>6</sub>-alkynylsulfonyl, C<sub>1</sub>-C<sub>6</sub>-haloalkyl, C<sub>1</sub>-C<sub>6</sub>-haloalkoxy, C<sub>3</sub>-C<sub>6</sub>-haloalkenyloxy, C<sub>1</sub>-C<sub>6</sub>-haloalkylthio, C<sub>3</sub>-C<sub>6</sub>-haloalkenylthio, C<sub>1</sub>-C<sub>6</sub>-haloalkylsulfinyl,
- C<sub>3</sub>-C<sub>6</sub>-haloalkenylsulfinyl, C<sub>1</sub>-C<sub>6</sub>-haloalkylsulfonyl or C<sub>3</sub>-C<sub>6</sub>-haloalkenylsulfonyl; preferably hydrogen, halogen, cyano, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkylthio, C<sub>1</sub>-C<sub>6</sub>-alkylsulfinyl or C<sub>1</sub>-C<sub>6</sub>-alkylsulfonyl; particularly preferably hydrogen, cyano, halogen or C<sub>1</sub>-C<sub>6</sub> alkyl;
  - $R^2$  is hydrogen, halogen, nitro, cyano,  $C_1$ - $C_6$ -alkyl,  $C_2$ - $C_6$ -alkynyl,  $C_1$ - $C_6$ -alkoxy,  $C_3$ - $C_6$ -alkenyloxy,
- C<sub>3</sub>-C<sub>6</sub>-alkynyloxy, C<sub>1</sub>-C<sub>6</sub>-haloalkyl, C<sub>1</sub>-C<sub>6</sub>-haloalkoxy,
  C<sub>3</sub>-C<sub>6</sub>-haloalkenyloxy or C<sub>3</sub>-C<sub>6</sub>-halogenalkynyloxy;
  preferably hydrogen, halogen, cyano, C<sub>1</sub>-C<sub>6</sub>-haloalkyl or
  C<sub>1</sub>-C<sub>6</sub>-alkyl;
  particularly preferably hydrogen or C<sub>1</sub>-C<sub>6</sub>-haloalkyl;
- furthermore particularly preferably halogen or C<sub>1</sub>-C<sub>6</sub>-alkyl; very particularly preferably hydrogen, halogen or C<sub>1</sub>-C<sub>6</sub>-alkyl;
  - R<sup>3</sup> is hydrogen, halogen, C<sub>1</sub>-C<sub>6</sub>-alkyl or C<sub>1</sub>-C<sub>6</sub>-haloalkyl; preferably hydrogen or halogen;

R<sup>4</sup> is hydrogen, halogen, nitro, cyano, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy,
C<sub>3</sub>-C<sub>6</sub>-alkenyloxy, C<sub>3</sub>-C<sub>6</sub>-alkynyloxy, C<sub>1</sub>-C<sub>6</sub>-haloalkyl or
C<sub>1</sub>-C<sub>6</sub>-haloalkoxy;
preferably hydrogen, halogen, C<sub>1</sub>-C<sub>6</sub>-alkyl or C<sub>1</sub>-C<sub>6</sub>-haloalkyl;
particularly preferably hydrogen or halogen;
very particularly preferably hydrogen;

R<sup>6</sup> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-alkyl;

R<sup>7</sup> is hydrogen, halogen, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>2</sub>-C<sub>6</sub>-alkenyl,
C<sub>2</sub>-C<sub>6</sub>-alkynyl or C<sub>1</sub>-C<sub>6</sub>-haloalkyl;
preferably hydrogen, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>2</sub>-C<sub>6</sub>-alkenyl or
C<sub>2</sub>-C<sub>6</sub>-alkynyl;
particularly preferably also C<sub>1</sub>-C<sub>6</sub>-alkyl or hydrogen;

R<sup>8</sup> is methyl or methoxy;
25 likewise hydroxyl;

R9 is hydrogen or methyl;
 preferably hydrogen;
 when R8 is hydroxyl, preferably methyl;

R<sup>10</sup> is hydrogen, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxycarbonyl, C<sub>1</sub>-C<sub>4</sub>-haloalkoxycarbonyl; preferably hydrogen;

C<sub>1</sub>-C<sub>6</sub>-haloalkoxy, C<sub>1</sub>-C<sub>6</sub>-haloalkylthio, C<sub>3</sub>-C<sub>6</sub>-haloalkenylthio, C<sub>1</sub>-C<sub>6</sub>-haloalkylsulfinyl, C<sub>3</sub>-C<sub>6</sub>-haloalkenylsulfinyl, C<sub>1</sub>-C<sub>6</sub>-haloalkylsulfonyl, C<sub>3</sub>-C<sub>6</sub>-haloalkenylsulfonyl or CO-R<sup>16</sup>; preferably halogen, cyano, C<sub>1</sub>-C<sub>6</sub>-alkylthio, C<sub>1</sub>-C<sub>6</sub>-alkylsulfinyl, C<sub>1</sub>-C<sub>6</sub>-alkylsulfonyl, C<sub>1</sub>-C<sub>6</sub>-alkyl,

45  $C_1-C_6$ -haloalkyl or  $CO-R^{16}$ ; in addition preferably  $C_1-C_6$ -haloalkoxy,  $C_1-C_6$ -haloalkylthio; particularly preferably halogen, cyano,  $C_1-C_6$ -alkylthio,  $C_1-C_6-alkylsulfinyl$ ,  $C_1-C_6-alkylsulfonyl$ ,  $C_1-C_6-alkyl$  or  $C_1-C_6-haloalkyl$ ; likewise particularly preferably  $C_1-C_6-haloalkoxy$ ,  $C_1-C_6-haloalkylthio$ ;

- very particularly preferably halogen or C<sub>1</sub>-C<sub>6</sub>-haloalkyl, where the halogen substituent in C<sub>1</sub>-C<sub>6</sub>-haloalkyl is preferably fluorine;
  - furthermore very particularly preferably  $C_1-C_6$ -haloalkoxy,  $C_1-C_6$ -haloalkylthio,  $C_1-C_6$ -alkylsulfonyl or
- 10  $C_1-C_6$ -alkylsulfinyl, where the halogen substituent in  $C_1-C_6$ -haloalkyl,  $C_1-C_6$ -haloalkylthio,  $C_1-C_6$ -alkylsulfinyl is preferably fluorine;
- R<sup>13</sup> is hydrogen, halogen, nitro, cyano, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>1</sub>-C<sub>6</sub>-alkylthio, C<sub>3</sub>-C<sub>6</sub>-alkenylthio, C<sub>3</sub>-C<sub>6</sub>-alkynylthio, C<sub>1</sub>-C<sub>6</sub>-alkylsulfinyl, C<sub>3</sub>-C<sub>6</sub>-alkenylsulfinyl, C<sub>3</sub>-C<sub>6</sub>-alkynylsulfinyl, C<sub>1</sub>-C<sub>6</sub>-alkylsulfonyl, C<sub>3</sub>-C<sub>6</sub>-alkenylsulfonyl, C<sub>3</sub>-C<sub>6</sub>-alkenylsulfonyl, C<sub>3</sub>-C<sub>6</sub>-alkynylsulfonyl, C<sub>1</sub>-C<sub>6</sub>-haloalkyl, C<sub>1</sub>-C<sub>6</sub>-haloalkoxy, C<sub>1</sub>-C<sub>6</sub>-haloalkylthio, C<sub>3</sub>-C<sub>6</sub>-haloalkenylthio,
- C<sub>1</sub>-C<sub>6</sub>-haloalkylsulfinyl, C<sub>3</sub>-C<sub>6</sub>-haloalkenylsulfinyl,
  C<sub>1</sub>-C<sub>6</sub>-haloalkylsulfonyl, C<sub>3</sub>-C<sub>6</sub>-haloalkenylsulfonyl or CO-R<sup>16</sup>;
  preferably hydrogen, halogen, cyano, C<sub>1</sub>-C<sub>6</sub>-alkyl,
  C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>1</sub>-C<sub>6</sub>-alkylthio, C<sub>1</sub>-C<sub>6</sub>-alkylsulfinyl,
  C<sub>1</sub>-C<sub>6</sub>-alkylsulfonyl, C<sub>1</sub>-C<sub>6</sub>-haloalkyl, C<sub>1</sub>-C<sub>6</sub>-haloalkoxy or
- C<sub>1</sub>-C<sub>6</sub>-haloalkylthio or CO-R<sup>16</sup>;

  particularly preferably hydrogen, halogen, cyano, C<sub>1</sub>-C<sub>6</sub>-alkyl,

  C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>1</sub>-C<sub>6</sub>-alkylthio, C<sub>1</sub>-C<sub>6</sub>-alkylsulfinyl,

  C<sub>1</sub>-C<sub>6</sub>-alkylsulfonyl, C<sub>1</sub>-C<sub>6</sub>-haloalkyl, C<sub>1</sub>-C<sub>6</sub>-haloalkoxy or

  C<sub>1</sub>-C<sub>6</sub>-haloalkylthio;
- very particularly preferably halogen, such as, for example, chlorine and fluorine, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-haloalkyl, where the halogen substituent in C<sub>1</sub>-C<sub>6</sub>-haloalkyl is preferably fluorine; likewise very particularly preferably hydrogen;
- 35  $R^{12}$  and  $R^{14}$  are hydrogen, halogen, cyano,  $C_1-C_6$ -alkyl,  $C_1-C_6$ -alkoxy,  $C_1-C_6$ -alkylthio,  $C_3-C_6$ -alkenylthio,  $C_3-C_6$ -alkynylthio,  $C_1-C_6$ -alkylsulfinyl,  $C_3-C_6$ -alkenylsulfinyl,  $C_1-C_6$ -alkylsulfonyl,  $C_3-C_6$ -alkenylsulfonyl,  $C_3-C_6$ -alkenylsulfonyl,  $C_3-C_6$ -alkynylsulfonyl,  $C_1-C_6$ -haloalkyl,
- C<sub>1</sub>-C<sub>6</sub>-haloalkoxy, C<sub>1</sub>-C<sub>6</sub>-haloalkylthio, C<sub>3</sub>-C<sub>6</sub>-haloalkenylthio, C<sub>1</sub>-C<sub>6</sub>-haloalkylsulfinyl, C<sub>3</sub>-C<sub>6</sub>-haloalkenylsulfinyl, C<sub>1</sub>-C<sub>6</sub>-haloalkylsulfonyl, C<sub>3</sub>-C<sub>6</sub>-haloalkenylsulfonyl, or CO-R<sup>16</sup>; preferably hydrogen, halogen, cyano, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>1</sub>-C<sub>6</sub>-alkylthio, C<sub>1</sub>-C<sub>6</sub>-alkylsulfinyl,
- 45  $C_1-C_6$ -alkylsulfonyl,  $C_1-C_6$ -haloalkyl,  $C_1-C_6$ -haloalkoxy,  $C_1-C_6$ -haloalkylthio or  $CO-R^{16}$ ; particularly preferably hydrogen, halogen, cyano,  $C_1-C_6$ -alkyl,

 $C_1-C_6-alkoxy$ ,  $C_1-C_6-alkylthio$ ,  $C_1-C_6-alkylsulfinyl$ ,  $C_1-C_6-alkylsulfonyl$ ,  $C_1-C_6-haloalkyl$ ,  $C_1-C_6-haloalkoxy$  or  $C_1-C_6-haloalkylthio$ ;  $R^{12}$  is very particularly preferably hydrogen or halogen, such as, for example, chlorine and fluorine,  $C_1-C_6-alkyl$ ,  $C_1-C_6-haloalkyl$ , where the halogen substituent in  $C_1-C_6-haloalkyl$  is preferably fluorine;

- R<sup>12</sup> is furthermore very particularly preferably cyano, C<sub>1</sub>-C<sub>6</sub>
  10 haloalkoxy or C<sub>1</sub>-C<sub>6</sub>-haloalkylthio, where the halogen

  substituent in C<sub>1</sub>-C<sub>6</sub>-haloalkyl or C<sub>1</sub>-C<sub>6</sub>-haloalkylthio is

  preferably fluorine;
- R<sup>14</sup> is furthermore very particularly preferably hydrogen;
  - $R^{15}$  is hydrogen, halogen,  $C_1-C_6$ -alkyl or  $C_1-C_6$ -haloalkyl; preferably hydrogen; and
- R<sup>16</sup> is hydrogen, hydroxyl, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-haloalkyl,

  C<sub>1</sub>-C<sub>6</sub>-Alkoxy, C<sub>1</sub>-C<sub>6</sub>-haloalkoxy, C<sub>1</sub>-C<sub>6</sub>-alkylamino or
  di(C<sub>1</sub>-C<sub>6</sub>-alkyl)amino, preferably C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-haloalkyl,
  C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>1</sub>-C<sub>6</sub>-haloalkoxy, C<sub>1</sub>-C<sub>6</sub>-alkylamino or
  di(C<sub>1</sub>-C<sub>6</sub>-alkyl)amino.
- 25 Preference is furthermore given to phenylalanine derivatives of the formula I where in each case independently of one another
- R<sup>2</sup> is hydrogen, C<sub>1</sub>-C<sub>4</sub>-haloalkyl, such as fluoromethyl,
  difluoromethyl or trifluoromethyl, halogen, such as fluorine,
  chlorine or bromine;
  likewise C<sub>1</sub>-C<sub>4</sub>-alkyl such as methyl, ethyl, n-propyl or
  isopropyl;
  preferably hydrogen or C<sub>1</sub>-C<sub>4</sub>-alkyl, such as methyl, ethyl,
  n-propyl or isopropyl;
  in addition preferably fluorine, chlorine or bromine;
  particularly preferably hydrogen, fluorine, chlorine or
  methyl;
- 45 R<sup>3</sup> is hydrogen, halogen, such as fluorine, chlorine or bromine, C<sub>1</sub>-C<sub>4</sub>-alkyl, such as methyl, ethyl, n-propyl or isopropyl; preferably hydrogen, fluorine, chlorine or bromine;

furthermore preferably methyl; particularly preferably hydrogen, fluorine or chlorine;

- R<sup>4</sup> is hydrogen, C<sub>1</sub>-C<sub>4</sub>-haloalkyl, such as fluoromethyl,
  difluoromethyl or trifluoromethyl, halogen, such as fluorine,
  chlorine or bromine, C<sub>1</sub>-C<sub>4</sub>-alkyl, such as methyl, ethyl,
  n-propyl or isopropyl;
  preferably hydrogen;
- is hydrogen, C<sub>1</sub>-C<sub>4</sub>-haloalkyl such as fluoromethyl, difluoromethyl or trifluoromethyl, halogen, such as fluorine, chlorine or bromine, C<sub>1</sub>-C<sub>4</sub>-alkyl, such as methyl, ethyl, n-propyl or isopropyl; preferably hydrogen;
- in addition preferably fluorine, chlorine or methyl.

Preference is furthermore given to phenylalanine derivatives of the formula I where in each case independently of one another

- 20 R<sup>7</sup> is hydrogen, haloalkyl, such as fluoromethyl, difluoromethyl or trifluoromethyl, halogen, such as fluorine, chlorine or bromine, C<sub>1</sub>-C<sub>4</sub>-alkyl, such as methyl, ethyl, n-propyl or isopropyl, or C<sub>2</sub>-C<sub>4</sub>-alkenyl, such as ethenyl, prop-1-en-1-yl, 1-methylethenyl, but-1-en-1-yl, but-1-en-2-yl,
- 1-methylprop-1-en-1-yl or 2-methylprop-1-en-1-yl,
  C2-C4-alkynyl, such as ethynyl, prop-1-yn-1-yl or
  n-but-1-yn-1-yl;

preferably hydrogen, C<sub>1</sub>-C<sub>4</sub>-alkyl, such as methyl or ethyl, or C<sub>2</sub>-C<sub>4</sub>-alkenyl, such as ethenyl, prop-1-en-1-yl,

- 1-methylethenyl, but-1-en-1-yl, but-1-en-2-yl,
  1-methylprop-1-en-1-yl or 2-methylprop-1-en-1-yl;
  particularly preferably hydrogen or methyl;
  furthermore particularly preferably ethyl; and
- 35 R6 is hydrogen.

Preference is furthermore given to phenylalanine derivatives of the formula I where  $\mathbb{R}^{10}$  is hydrogen.

- 40 Preference is is furthermore given to phenylalanine derivatives of the formula I where in each case independently of one another
  - $R^8$  is  $C_1$ - $C_6$ -alkoxy or hydroxyl and
- 45  $R^9$  is hydrogen,  $C_1-C_6$ -alkyl, preferably methyl.

Preference is also given to compounds I in which

- R8 is methyl or ethyl, preferably methyl, and
- 5 R9 is hydrogen or C1-C6-alkyl, preferably hydrogen.

Particular preference is given to compounds I in which

- R<sup>8</sup> is C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>1</sub>-C<sub>4</sub>-alkyl or hydroxyl;
  10 preferably methoxy, methyl or hydroxyl;
  - $R^9$  is hydrogen,  $C_1-C_6$ -alkyl, preferably hydrogen or methyl.

In this case,  $R^9$  is then preferably methyl, if  $R^8$  is hydroxyl.

Preference is also given to compounds I in which

- R8 is methyl and
- 20 R9 is hydrogen.

Preference is furthermore given to phenylalanine derivatives of the formula I where in each case independently of one another

- 25 R<sup>11</sup> is cyano, C<sub>1</sub>-C<sub>4</sub>-alkyl, such as methyl, ethyl, n-propyl or isopropyl, C<sub>1</sub>-C<sub>4</sub>-haloalkyl, such as fluoromethyl, difluoromethyl or trifluoromethyl, halogen, such as fluorine, chlorine or bromine, C<sub>1</sub>-C<sub>4</sub>-alkylsulfonyl, such as methylsulfonyl, ethylsulfonyl, n-propylsulfonyl or
- isopropylsulfonyl, or  $CO-R^{16}$ ; in addition  $C_1-C_4$ -haloalkoxy, such as fluoromethoxy, difluoromethoxy, trifluoromethoxy, or  $C_1-C_4$ -haloalkylthio, such as fluorothiomethyl, difluorothiomethyl or trifluorothiomethyl, or  $C_1-C_4$ -alkylsulfinyl, such as
- methylsulfinyl, ethylsulfinyl, n-propylsulfinyl or
  isopropylsulfinyl;
  preferably cyano, C<sub>1</sub>-C<sub>4</sub>-alkyl, such as methyl, ethyl, n-propyl
  or isopropyl, C<sub>1</sub>-C<sub>4</sub>-haloalkyl, such as fluoromethyl,
  difluoromethyl or trifluoromethyl, halogen, such as fluorine,
- chlorine or bromine, C<sub>1</sub>-C<sub>4</sub>-alkylsulfonyl, such as methylsulfonyl, ethylsulfonyl, n-propylsulfonyl or isopropylsulfonyl; likewise preferably C<sub>1</sub>-C<sub>4</sub>-haloalkoxy, such as fluoromethoxy, difluoromethoxy, or trifluoromethoxy, or C<sub>1</sub>-C<sub>4</sub>-haloalkylthio,
- such as fluorothiomethyl, difluorothiomethyl or trifluorothiomethyl, or  $C_1-C_4$ -alkylsulfinyl, such as methylsulfinyl, ethylsulfinyl, n-propylsulfinyl or

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isopropylsulfinyl;
particularly preferably trifluoromethyl, chlorine, bromine;
furthermore particularly preferably fluorine, fluoromethyl,
difluoromethyl, fluoromethoxy, difluoromethoxy or
trifluoromethoxy, fluorothiomethyl, difluorothiomethyl or
trifluorothiomethyl, methylsulfonyl or methylsulfinyl;

- R12, R13 and R14 are hydrogen, cyano, halogen, such as fluorine, chlorine or bromine, C1-C4-haloalkyl, such as fluoromethyl. difluoromethyl or trifluoromethyl, C1-C4-alkyl, such as 10 methyl, ethyl, n-propyl or isopropyl, C1-C4- alkylsulfonyl, such as methylsulfonyl, ethylsulfonyl, n-propylsulfonyl or isopropylsulfonyl, C1-C4-alkoxy, such as methoxy, ethoxy, n-propoxy or isopropoxy, halomethoxy, such as fluoromethoxy, 15 difluoromethoxy or trifluoromethoxy, or CO-R16; furthermore halomethylthio, such as fluorothiomethyl, difluorothiomethyl or trifluorothiomethyl; preferably hydrogen, cyano, halogen, such as fluorine, chlorine or bromine, C1-C4-haloalkyl, such as fluoromethyl, 20 difluoromethyl or trifluoromethyl, C1-C4-alkyl, such as methyl, ethyl, n-propyl or isopropyl, C1-C4-alkylsulfonyl, such as methylsulfonyl, ethylsulfonyl, n-propylsulfonyl or isopropylsulfonyl, C1-C4-alkoxy, such as methoxy, ethoxy, n-propoxy or isopropoxy, halomethoxy, such as fluoromethoxy, 25 difluoromethoxy or trifluoromethoxy; furthermore halomethylthio, such as fluorothiomethyl, difluorothiomethyl or trifluorothiomethyl; particularly preferably hydrogen, halogen, such as fluorine or chlorine, C1-C4-haloalkyl, such as fluoromethyl, 30 difluoromethyl or trifluoromethyl,  $C_1$ - $C_4$ -alkyl, such as methyl, ethyl, n-propyl or isopropyl; likewise particularly preferably halomethoxy, such as fluoromethoxy, difluoromethoxy or trifluoromethoxy, halomethylthio, such as fluorothiomethyl, difluorothiomethyl, 35 or trifluorothiomethyl;
  - R12 is very particularly preferably hydrogen, cyano, fluorine, chlorine, methyl, fluoromethyl, difluoromethyl or trifluoromethyl, fluoromethoxy, difluoromethoxy, trifluoromethoxy, fluorothiomethyl, difluorothiomethyl, trifluorothiomethyl,
  - R<sup>13</sup> is very particularly preferably hydrogen, fluorine or chlorine;

R14 is very particularly preferably hydrogen;

R15 is hydrogen; and

- R16 is C<sub>1</sub>-C<sub>4</sub>-alkoxy, such as methoxy, ethoxy, n-propoxy, isopropoxy, n-butoxy or t-butoxy, C<sub>1</sub>-C<sub>4</sub>-alkyl, such as methyl, ethyl, n-propyl or isopropyl, C<sub>1</sub>-alkyl, such as fluoromethyl, difluoromethyl or trifluoromethyl, or C<sub>1</sub>-haloalkoxy, such as fluoromethoxy, difluoromethoxy or trifluoromethoxy.
- 10 Preference is also given to phenylalanine derivatives of the formula I in which the radicals
  - $R^1$ ,  $R^2$ ,  $R^4$  and  $R^5$  are hydrogen, halogen, hydroxyl, mercapto, nitro, cyano,  $C_1$ - $C_6$ -alkyl,  $C_2$ - $C_6$ -alkenyl,  $C_2$ - $C_6$ -alkynyl,
- 15 C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>3</sub>-C<sub>6</sub>-alkenyloxy, C<sub>3</sub>-C<sub>6</sub>-alkynyloxy,
  C<sub>1</sub>-C<sub>6</sub>-alkylthio, C<sub>3</sub>-C<sub>6</sub>-alkenylthio, C<sub>3</sub>-C<sub>6</sub>-alkynylthio,
  C<sub>1</sub>-C<sub>6</sub>-alkylsulfinyl, C<sub>3</sub>-C<sub>6</sub>-alkenylsulfinyl,
  C<sub>3</sub>-C<sub>6</sub>-alkynylsulfinyl, C<sub>1</sub>-C<sub>6</sub>-alkylsulfonyl,
  C<sub>3</sub>-C<sub>6</sub>-alkenylsulfonyl, C<sub>3</sub>-C<sub>6</sub>-alkynylsulfonyl, C<sub>1</sub>-C<sub>6</sub>-haloalkyl,
- 20 C<sub>2</sub>-C<sub>6</sub>-haloalkenyl, C<sub>2</sub>-C<sub>6</sub>-haloalkynyl, C<sub>1</sub>-C<sub>6</sub>-haloalkoxy, C<sub>3</sub>-C<sub>6</sub>-haloalkenyloxy, C<sub>3</sub>-C<sub>6</sub>-haloalkynyloxy,

 $C_1-C_6$ -haloalkylthio,  $C_3-C_6$ -haloalkenylthio,  $C_3-C_6$ -haloalkynylthio,  $C_1-C_6$ -haloalkylsulfinyl,

C<sub>3</sub>-C<sub>6</sub>-haloalkenylsulfinyl, C<sub>3</sub>-C<sub>6</sub>-haloalkynylsulfinyl,

- 25  $C_1-C_6-haloalkylsulfonyl$ ,  $C_3-C_6-haloalkenylsulfonyl$ ,  $C_3-C_6-haloalkynylsulfonyl$ , formyl,  $C_1-C_6-alkylcarbonyloxy$ ,  $C_1-C_6-alkoxy-C_1-C_4-alkyl$ ,  $C_3-C_6-alkenyloxy-C_1-C_4-alkyl$ ,
- C<sub>1</sub>-C<sub>6</sub>-alkylcarbonyl-C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkylcarbonyloxy-C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxycarbonyl-C<sub>1</sub>-C<sub>4</sub>-alkyl,

 $C_1-C_6-alkoxy-C_1-C_4-alkoxy$ ,  $C_3-C_6-alkenyloxy-C_1-C_4-alkoxy$ ,

C<sub>3</sub>-C<sub>4</sub>-alkynyloxy-C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>1</sub>-C<sub>6</sub>-alkylthio-C<sub>1</sub>-C<sub>4</sub>-alkoxy,
C<sub>3</sub>-C<sub>6</sub>-alkenylthio-C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>3</sub>-C<sub>6</sub>-alkynylthio-C<sub>1</sub>-C<sub>4</sub>-alkoxy,
C<sub>1</sub>-C<sub>6</sub>-alkylcarbonyl-C<sub>1</sub>-C<sub>4</sub>-alkoxy,
C<sub>1</sub>-C<sub>6</sub>-alkylcarbonyloxy-C<sub>1</sub>-C<sub>4</sub>-alkoxy,
C<sub>1</sub>-C<sub>6</sub>-alkoxycarbonyl-C<sub>1</sub>-C<sub>4</sub>-alkoxy or CO-R<sup>16</sup>;

- R<sup>3</sup> is hydrogen, mercapto,  $C_1$ - $C_6$ -alkyl,  $C_2$ - $C_6$ -alkenyl,  $C_2$ - $C_6$ -alkynyl,  $C_1$ - $C_6$ -alkylthio,  $C_3$ - $C_6$ -alkynylthio,  $C_1$ - $C_6$ -alkylsulfinyl,  $C_3$ - $C_6$ -alkynylsulfinyl,  $C_1$ - $C_6$ -alkylsulfonyl,  $C_3$ - $C_6$ -alkynylsulfinyl,  $C_1$ - $C_6$ -alkylsulfonyl,
- C<sub>3</sub>-C<sub>6</sub>-alkenylsulfonyl, C<sub>3</sub>-C<sub>6</sub>-alkynylsulfonyl, C<sub>1</sub>-C<sub>6</sub>-haloalkyl, C<sub>2</sub>-C<sub>6</sub>-haloalkenyl, C<sub>2</sub>-C<sub>6</sub>-haloalkynyl, C<sub>1</sub>-C<sub>6</sub>-haloalkylthio, C<sub>3</sub>-C<sub>6</sub>-haloalkenylthio, C<sub>3</sub>-C<sub>6</sub>-haloalkynylthio,

 $\begin{array}{l} C_1-C_6-\text{haloalkylsulfinyl}, \ C_3-C_6-\text{haloalkenylsulfinyl}, \\ C_3-C_6-\text{haloalkynylsulfinyl}, \ C_1-C_6-\text{haloalkylsulfonyl}, \\ C_3-C_6-\text{haloalkenylsulfonyl}, \ C_3-C_6-\text{haloalkynylsulfonyl}, \\ C_1-C_6-\text{alkoxy-}C_1-C_4-\text{alkyl}, \ C_3-C_6-\text{alkenyloxy-}C_1-C_4-\text{alkyl}, \\ C_3-C_4-\text{alkynyloxy-}C_1-C_4-\text{alkyl}, \ C_1-C_6-\text{alkylthio-}C_1-C_4-\text{alkyl}, \\ C_3-C_6-\text{alkenylthio-}C_1-C_4-\text{alkyl}, \ C_3-C_6-\text{alkynylthio-}C_1-C_4-\text{alkyl}, \\ C_1-C_6-\text{alkylcarbonyl-}C_1-C_4-\text{alkyl}, \\ C_1-C_6-\text{alkylcarbonyloxy-}C_1-C_4-\text{alkyl}, \\ C_1-C_6-\text{alkyloxycarbonyl-}C_1-C_4-\text{alkyl}, \\ C_1-C_6-\text{alkyloxycarbonyl-}C_1-C_4-\text{alkyloxycarbonyl-}$ 

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Preference is also given to phenylalanine derivatives of the formula I in which  $R^1$ ,  $R^2$ ,  $R^3$ ,  $R^4$  and  $R^5$  are hydrogen.

Preference is also given to phenylalanine derivatives of the 15 formula I in which

 $R^1$ ,  $R^2$  and  $R^3$  in each case independently of one another are hydrogen, fluorine, chlorine, methyl or trifluoromethyl;

 $R^4$ ,  $R^5$ ,  $R^6$ ,  $R^9$ ,  $R^{10}$  and  $R^{15}$  are hydrogen;

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R7 is hydrogen or methyl;

R<sup>8</sup> is methyl;

25 R<sup>11</sup>, R<sup>12</sup>, R<sup>13</sup> and R<sup>14</sup> in each case independently of one another are hydrogen, bromine, methylsulfonyl, fluorine, chlorine, methyl, trifluoromethyl, difluoromethyl, methoxy, cyano, preferably H, fluorine, chlorine, methyl, trifluoromethyl, difluoromethyl, methoxy or cyano.

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Particular preference is also given to phenylalanine derivatives of the formula I' ( $R^4$ ,  $R^6$ ,  $R^{10}$ ,  $R^{14}$  and  $R^{15}$  are hydrogen) in which

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 $R^1$ ,  $R^2$ ,  $R^3$ ,  $R^5$  in each case independently of one another are 45 hydrogen, fluorine, chlorine, methyl or ethyl;

- R7 is hydrogen, methyl or ethyl;
- R8 is methoxy, methyl or hydroxyl;
- 5 R<sup>9</sup> is hydrogen; is methyl if R<sup>8</sup> is hydroxyl;
- R<sup>11</sup> is fluorine, chlorine, halomethyl, such as fluoromethyl, difluoromethyl, trifluoromethyl, halomethoxy, such as fluoromethoxy, difluoromethoxy, trifluoromethoxy, halothioalkyl, such as fluorothiomethyl, difluorothiomethyl, trifluorothiomethyl, methylsulfinyl or methylsulfonyl;
- R12 is hydrogen, cyano, methyl, fluorine, chlorine, halomethyl, such as fluoromethyl, difluoromethyl, trifluoromethyl, halomethoxy, such as fluoromethoxy, difluoromethoxy, trifluoromethoxy, halothioalkyl, such as fluorothiomethyl, difluorothiomethyl, trifluorothiomethyl;
- 20 R13 is hydrogen, fluorine, chlorine.

In particular with a view to their use, preference is also given to the compounds I' compiled in the tables below.

#### 25 Table 1:

Compounds of the formula I' (R<sup>4</sup>, R<sup>6</sup>, R<sup>10</sup>, R<sup>14</sup> and R<sup>15</sup> are hydrogen) in which R<sup>3</sup> is H, R<sup>5</sup> is H, R<sup>7</sup> is H, R<sup>9</sup> is H and R<sup>8</sup> is CH<sub>3</sub> and the combination of the substituents R<sup>1</sup>, R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a 30 compound corresponds in each case to a row of table A.

#### Table 2:

Compounds of the formula I', in which R<sup>3</sup> is H, R<sup>5</sup> is H, R<sup>7</sup> is H, R<sup>9</sup> 35 is H and R<sup>8</sup> is OCH<sub>3</sub> and the combination of the substituents R<sup>1</sup>, R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

#### Table 3:

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Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is H,  $R^7$  is H,  $R^9$  is H and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

Table 4:

Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is H,  $R^7$  is E,  $R^9$  is CH<sub>3</sub> and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

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Tabelle 5:

Compounds of the formula I', in which R<sup>3</sup> is H, R<sup>5</sup> is H, R<sup>7</sup> is CH<sub>3</sub>, R<sup>9</sup> is H and R<sup>8</sup> is CH<sub>3</sub> and the combination of the substituents R<sup>1</sup>, 10 R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

Table 6:

15 Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is H,  $R^7$  is  $CH_3$ ,  $R^9$  is H and  $R^8$  is  $OCH_3$  and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

#### 20 Table 7:

Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is H,  $R^7$  is  $CH_3$ ,  $R^9$  is H and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a 25 row of table A.

Table 8:

Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is H,  $R^7$  is  $CH_3$ , 30  $R^9$  is  $CH_3$  and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

Table 9:

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Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is H,  $R^7$  is  $CH_2CH_3$ ,  $R^9$  is H and  $R^8$  is  $CH_3$  and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

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Table 10:

Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is H,  $R^7$  is  $CH_2CH_3$ ,  $R^9$  is H and  $R^8$  is  $OCH_3$  and the combination of the 45 substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

Table 11:

Compounds of the formula I', in which R<sup>3</sup> is H, R<sup>5</sup> is H, R<sup>7</sup> is CH<sub>2</sub>CH<sub>3</sub>, R<sup>9</sup> is H and R<sup>8</sup> is OH and the combination of the 5 substituents R<sup>1</sup>, R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

Table 12:

10 Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is H,  $R^7$  is  $CH_2CH_3$ ,  $R^9$  is  $CH_3$  and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

15 Table 13:

Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is F,  $R^7$  is H,  $R^9$  is H and  $R^8$  is  $CH_3$  and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row 20 of table A.

Table 14:

Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is F,  $R^7$  is H,  $R^9$  25 is H and  $R^8$  is OCH<sub>3</sub> and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

Table 15:

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Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is F,  $R^7$  is H,  $R^9$  is H and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

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Table 16:

Compounds of the formula I', in which R<sup>3</sup> is H, R<sup>5</sup> is F, R<sup>7</sup> is H, R<sup>9</sup> is CH<sub>3</sub> and R<sup>8</sup> is OH and the combination of the substituents R<sup>1</sup>, 40 R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

Table 17:

Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is F,  $R^7$  is  $CH_3$ ,  $R^9$  is H and  $R^8$  is  $CH_3$  and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

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Table 18:

Compounds of the formula I', in which R<sup>3</sup> is H, R<sup>5</sup> is F, R<sup>7</sup> is CH<sub>3</sub>, R<sup>9</sup> is H and R<sup>8</sup> is OCH<sub>3</sub> and the combination of the substituents R<sup>1</sup>, 10 R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

Table 19:

15 Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is F,  $R^7$  is  $CH_3$ ,  $R^9$  is H and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

20 Table 20:

Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is F,  $R^7$  is  $CH_3$ ,  $R^9$  is  $CH_3$  and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a 25 row of table A.

Table 21:

Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is F,  $R^7$  is 30  $CH_2CH_3$ ,  $R^9$  is H and  $R^8$  is  $CH_3$  and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

Table 22:

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Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is F,  $R^7$  is  $CH_2CH_3$ ,  $R^9$  is H and  $R^8$  is  $OCH_3$  and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

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Table 23:

Compounds of the formula I', in which R<sup>3</sup> is H, R<sup>5</sup> is F, R<sup>7</sup> is CH<sub>2</sub>CH<sub>3</sub>, R<sup>9</sup> is H and R<sup>8</sup> is OH and the combination of the 45 substituents R<sup>1</sup>, R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

Table 24:

Compounds of the formula I', in which R<sup>3</sup> is H, R<sup>5</sup> is F, R<sup>7</sup> is CH<sub>2</sub>CH<sub>3</sub>, R<sup>9</sup> is CH<sub>3</sub> and R<sup>8</sup> is OH and the combination of the 5 substituents R<sup>1</sup>, R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

Table 25:

10 Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is Cl,  $R^7$  is H,  $R^9$  is H and  $R^8$  is CH<sub>3</sub> and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

15 Table 26:

Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is Cl,  $R^7$  is H,  $R^9$  is H and  $R^8$  is OCH<sub>3</sub> and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a 20 row of table A.

Table 27:

Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is Cl,  $R^7$  is H,  $R^5$  is H and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

Table 28:

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Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is Cl,  $R^7$  is H,  $R^9$  is CH<sub>3</sub> and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

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Table 29:

Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is Cl,  $R^7$  is CH<sub>3</sub>,  $R^9$  is H and  $R^8$  is CH<sub>3</sub> and the combination of the substituents  $R^1$ , 40  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

Table 30:

Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is Cl,  $R^7$  is  $CH_3$ ,  $R^9$  is H and  $R^8$  is OCH<sub>3</sub> and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

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Table 31:

Compounds of the formula I', in which R<sup>3</sup> is H, R<sup>5</sup> is Cl, R<sup>7</sup> is CH<sub>3</sub>, R<sup>9</sup> is H and R<sup>8</sup> is OH and the combination of the substituents R<sup>1</sup>, 10 R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

Table 32:

15 Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is Cl,  $R^7$  is  $CH_3$ ,  $R^9$  is  $CH_3$  and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

20 Table 33:

Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is Cl,  $R^7$  is  $CH_2CH_3$ ,  $R^9$  is H and  $R^8$  is  $CH_3$  and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in 25 each case to a row of table A.

Table 34:

Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is Cl,  $R^7$  is 30  $CH_2CH_3$ ,  $R^9$  is H and  $R^8$  is  $OCH_3$  and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

Table 35:

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Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is Cl,  $R^7$  is  $CH_2CH_3$ ,  $R^9$  is H and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

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Table 36:

Compounds of the formula I', in which R<sup>3</sup> is H, R<sup>5</sup> is Cl, R<sup>7</sup> is CH<sub>2</sub>CH<sub>3</sub>, R<sup>9</sup> is CH<sub>3</sub> and R<sup>8</sup> is OH and the combination of the 45 substituents R<sup>1</sup>, R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

Table 37:

Compounds of the formula I', in which R<sup>3</sup> is H, R<sup>5</sup> is CH<sub>3</sub>, R<sup>7</sup> is H, R<sup>9</sup> is H and R<sup>8</sup> is CH<sub>3</sub> and the combination of the substituents R<sup>1</sup>, 5 R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

Table 38:

10 Compounds of the formula I', in which R<sup>3</sup> is H, R<sup>5</sup> is CH<sub>3</sub>, R<sup>7</sup> is H, R<sup>9</sup> is H and R<sup>8</sup> is OCH<sub>3</sub> and the combination of the substituents R<sup>1</sup>, R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

15 Table 39:

Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is  $CH_3$ ,  $R^7$  is H,  $R^9$  is H and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a 20 row of table A.

Table 40:

Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is  $CH_3$ ,  $R^7$  is H,  $R^5$  is  $CH_3$  and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

Table 41:

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Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is  $CH_3$ ,  $R^7$  is  $CH_3$ ,  $R^9$  is H and  $R^8$  is  $CH_3$  and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

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Table 42:

Compounds of the formula I', in which R<sup>3</sup> is H, R<sup>5</sup> is CH<sub>3</sub>, R<sup>7</sup> is CH<sub>3</sub>, R<sup>9</sup> is H and R<sup>8</sup> is OCH<sub>3</sub> and the combination of the substituents 40 R<sup>1</sup>, R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

Table 43:

Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is  $CH_3$ ,  $R^7$  is  $CH_3$ ,  $R^9$  is H and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

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Table 44:

Compounds of the formula I', in which R<sup>3</sup> is H, R<sup>5</sup> is CH<sub>3</sub>, R<sup>7</sup> is CH<sub>3</sub>, R<sup>9</sup> is CH<sub>3</sub> and R<sup>8</sup> is OH and the combination of the substituents 10 R<sup>1</sup>, R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

Table 45:

15 Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is  $CH_3$ ,  $R^7$  is  $CH_2CH_3$ ,  $R^9$  is H and  $R^8$  is  $CH_3$  and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

20 Table 46:

Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is  $CH_3$ ,  $R^7$  is  $CH_2CH_3$ ,  $R^9$  is H and  $R^8$  is  $OCH_3$  and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in 25 each case to a row of table A.

Table 47:

Compounds of the formula I', in which R<sup>3</sup> is H, R<sup>5</sup> is CH<sub>3</sub>, R<sup>7</sup> is 30 CH<sub>2</sub>CH<sub>3</sub>, R<sup>9</sup> is H and R<sup>8</sup> is OH and the combination of the substituents R<sup>1</sup>, R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

Table 48:

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Compounds of the formula I', in which  $R^3$  is H,  $R^5$  is  $CH_3$ ,  $R^7$  is  $CH_2CH_3$ ,  $R^9$  is  $CH_3$  and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

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Table 49:

Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is H,  $R^7$  is H,  $R^9$  is H and  $R^8$  is  $CH_3$  and the combination of the substituents  $R^1$ ,  $R^2$ , 45  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

Table 50:

Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is H,  $R^7$  is H,  $R^9$  is H and  $R^8$  is OCH<sub>3</sub> and the combination of the substituents  $R^1$ , 5  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

Table 51:

10 Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is H,  $R^7$  is H,  $R^9$  is H and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

15 Table 52:

Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is H,  $R^7$  is H,  $R^9$  is CH<sub>3</sub> and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a 20 row of table A.

Table 53:

Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is H,  $R^7$  is  $CH_3$ , 25  $R^9$  is H and  $R^8$  is  $CH_3$  and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

Table 54:

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Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is H,  $R^7$  is  $CH_3$ ,  $R^9$  is H and  $R^8$  is  $OCH_3$  and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

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Table 55:

Compounds of the formula I', in which R<sup>3</sup> is F, R<sup>5</sup> is H, R<sup>7</sup> is CH<sub>3</sub>, R<sup>9</sup> is H and R<sup>8</sup> is OH and the combination of the substituents R<sup>1</sup>, 40 R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

Table 56:

Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is H,  $R^7$  is CH<sub>3</sub>,  $R^9$  is CH<sub>3</sub> and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

Table 57:

Compounds of the formula I', in which R<sup>3</sup> is F, R<sup>5</sup> is H, R<sup>7</sup> is CH<sub>2</sub>CH<sub>3</sub>, R<sup>9</sup> is H and R<sup>8</sup> is CH<sub>3</sub> and the combination of the 10 substituents R<sup>1</sup>, R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

Table 58:

15 Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is H,  $R^7$  is  $CH_2CH_3$ ,  $R^9$  is H and  $R^8$  is  $OCH_3$  and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

20 Table 59:

Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is H,  $R^7$  is  $CH_2CH_3$ ,  $R^9$  is H and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in 25 each case to a row of table A.

Table 60:

Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is H,  $R^7$  is 30  $CH_2CH_3$ ,  $R^9$  is  $CH_3$  and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

Table 61:

Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is F,  $R^7$  is H,  $R^9$  is H and  $R^8$  is  $CH_3$  and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

Table 62:

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Compounds of the formula I', in which R<sup>3</sup> is F, R<sup>5</sup> is F, R<sup>7</sup> is H, R<sup>9</sup> is H and R<sup>8</sup> is OCH<sub>3</sub> and the combination of the substituents R<sup>1</sup>, 45 R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

Table 63:

Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is F,  $R^7$  is H,  $R^9$  is H and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ , 5  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

Table 64:

10 Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is F,  $R^7$  is H,  $R^9$  is  $CH_3$  and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

15 Table 65:

Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is F,  $R^7$  is  $CH_3$ ,  $R^9$  is H and  $R^8$  is  $CH_3$  and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a 20 row of table A.

Table 66:

Compounds of the formula I', in which R<sup>3</sup> is F, R<sup>5</sup> is F, R<sup>7</sup> is CH<sub>3</sub>, 25 R<sup>9</sup> is H and R<sup>8</sup> is OCH<sub>3</sub> and the combination of the substituents R<sup>1</sup>, R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

Table 67:

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Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is F,  $R^7$  is  $CH_3$ ,  $R^9$  is H and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

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Table 68:

Compounds of the formula I', in which R<sup>3</sup> is F, R<sup>5</sup> is F, R<sup>7</sup> is CH<sub>3</sub>, R<sup>9</sup> is CH<sub>3</sub> and R<sup>8</sup> is OH and the combination of the substituents R<sup>1</sup>, 40 R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

Table 69:

Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is F,  $R^7$  is  $CH_2CH_3$ ,  $R^9$  is H and  $R^8$  is  $CH_3$  and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

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Table 70:

Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is F,  $R^7$  is  $CH_2CH_3$ ,  $R^9$  is H and  $R^8$  is  $OCH_3$  and the combination of the 10 substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

Table 71:

15 Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is F,  $R^7$  is  $CH_2CH_3$ ,  $R^9$  is H and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

20 Table 72:

Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is F,  $R^7$  is  $CH_2CH_3$ ,  $R^9$  is  $CH_3$  and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in 25 each case to a row of table A.

Table 73:

Compounds of the formula I', in which R<sup>3</sup> is F, R<sup>5</sup> is Cl, R<sup>7</sup> is H, 30 R<sup>9</sup> is H and R<sup>8</sup> is CH<sub>3</sub> and the combination of the substituents R<sup>1</sup>, R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

Table 74:

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Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is Cl,  $R^7$  is H,  $R^9$  is H and  $R^8$  is OCH<sub>3</sub> and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

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Table 75:

Compounds of the formula I', in which R<sup>3</sup> is F, R<sup>5</sup> is Cl, R<sup>7</sup> is H, R<sup>9</sup> is H and R<sup>8</sup> is OH and the combination of the substituents R<sup>1</sup>, 45 R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

Table 76:

Compounds of the formula I', in which R<sup>3</sup> is F, R<sup>5</sup> is Cl, R<sup>7</sup> is H, R<sup>9</sup> is CH<sub>3</sub> and R<sup>8</sup> is OH and the combination of the substituents R<sup>1</sup>, 5 R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

Table 77:

10 Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is Cl,  $R^7$  is  $CH_3$ ,  $R^9$  is H and  $R^8$  is  $CH_3$  and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

15 Table 78:

Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is Cl,  $R^7$  is CH<sub>3</sub>,  $R^9$  is H and  $R^8$  is OCH<sub>3</sub> and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a 20 row of table A.

Table 79:

Compounds of the formula I', in which R<sup>3</sup> is F, R<sup>5</sup> is Cl, R<sup>7</sup> is CH<sub>3</sub>, 25 R<sup>9</sup> is H and R<sup>8</sup> is OH and the combination of the substituents R<sup>1</sup>, R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

Table 80:

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Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is Cl,  $R^7$  is CH<sub>3</sub>,  $R^9$  is CH<sub>3</sub> and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

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Table 81:

Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is Cl,  $R^7$  is  $CH_2CH_3$ ,  $R^9$  is H and  $R^8$  is  $CH_3$  and the combination of the 40 substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

Table 82:

Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is Cl,  $R^7$  is  $CH_2CH_3$ ,  $R^9$  is H and  $R^8$  is  $OCH_3$  and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

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Table 83:

Compounds of the formula I', in which R<sup>3</sup> is F, R<sup>5</sup> is Cl, R<sup>7</sup> is CH<sub>2</sub>CH<sub>3</sub>, R<sup>9</sup> is H and R<sup>8</sup> is OH and the combination of the 10 substituents R<sup>1</sup>, R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

Table 84:

15 Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is Cl,  $R^7$  is  $CH_2CH_3$ ,  $R^9$  is  $CH_3$  and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

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Table 85:

Compounds of the formula I', in which R<sup>3</sup> is F, R<sup>5</sup> is CH<sub>3</sub>, R<sup>7</sup> is H, R<sup>9</sup> is H and R<sup>8</sup> is CH<sub>3</sub> and the combination of the substituents R<sup>1</sup>, 25 R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

Table 86:

30 Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is  $CH_3$ ,  $R^7$  is H,  $R^9$  is H and  $R^8$  is  $OCH_3$  and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

35 Table 87:

Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is  $CH_3$ ,  $R^7$  is H,  $R^9$  is H and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a 40 row of table A.

Table 88:

Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is  $CH_3$ ,  $R^7$  is H,  $R^9$  is  $CH_3$  and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

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Table 89:

Compounds of the formula I', in which R<sup>3</sup> is F, R<sup>5</sup> is CH<sub>3</sub>, R<sup>7</sup> is CH<sub>3</sub>, R<sup>9</sup> is H and R<sup>8</sup> is CH<sub>3</sub> and the combination of the substituents 10 R<sup>1</sup>, R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

Table 90:

15 Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is  $CH_3$ ,  $R^7$  is  $CH_3$ ,  $R^9$  is H and  $R^8$  is  $OCH_3$  and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

20 Table 91:

Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is  $CH_3$ ,  $R^7$  is  $CH_3$ ,  $R^9$  is H and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to 25 a row of table A.

Table 92:

Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is  $CH_3$ ,  $R^7$  is 30  $CH_3$ ,  $R^9$  is  $CH_3$  and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

Table 93:

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Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is  $CH_3$ ,  $R^7$  is  $CH_2CH_3$ ,  $R^9$  is H and  $R^8$  is  $CH_3$  and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

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Table 94:

Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is  $CH_3$ ,  $R^7$  is  $CH_2CH_3$ ,  $R^9$  is H and  $R^8$  is  $OCH_3$  and the combination of the 45 substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

Table 95:

Compounds of the formula I', in which R<sup>3</sup> is F, R<sup>5</sup> is CH<sub>3</sub>, R<sup>7</sup> is CH<sub>2</sub>CH<sub>3</sub>, R<sup>9</sup> is H and R<sup>8</sup> is OH and the combination of the 5 substituents R<sup>1</sup>, R<sup>2</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> for a compound corresponds in each case to a row of table A.

Table 96:

10 Compounds of the formula I', in which  $R^3$  is F,  $R^5$  is  $CH_3$ ,  $R^7$  is  $CH_2CH_3$ ,  $R^9$  is  $CH_3$  and  $R^8$  is OH and the combination of the substituents  $R^1$ ,  $R^2$ ,  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  for a compound corresponds in each case to a row of table A.

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(E)

Table 1

	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R12	R <sup>13</sup>
_	A-1	н	H	F	H	H
5	A-2	F	H	F	Н	
	A-3	Cl				B
	A-4		H	F	H	H
		CH <sub>3</sub>	H	F	Н	Н
10	A-5	CH <sub>2</sub> CH <sub>3</sub>	H	F	H	H
	A-6	日	H	Cl	H	H
	A-7	F	H	Cl	H	H
	A-8	Cl	H	Cl	H	<b>H</b>
	A-9	CH <sub>3</sub>	H	Cl	H	B
15	A-10	CH <sub>2</sub> CH <sub>3</sub>	H	Cl	H	H
	A-11	H	H	CHF <sub>2</sub>	H	H
	A-12	F	H	CHF <sub>2</sub>	H	H
	A-13	Cl	Ħ	CHF <sub>2</sub>	H	H
20	A-14	CH <sub>3</sub>	H	CHF <sub>2</sub>	H	H
	A-15	CH <sub>2</sub> CH <sub>3</sub>	Ħ	CHF <sub>2</sub>	H	Ħ
	A-16	H	H	CF <sub>3</sub>	H	H
	A-17	F	H	CF <sub>3</sub>	H	H
25	A-18	Cl	H	CF <sub>3</sub>	H	H
	A-19	CH <sub>3</sub>	H	CF <sub>3</sub>	H	H
	A-20	CH <sub>2</sub> CH <sub>3</sub>	Ħ	CF <sub>3</sub>	H	H
	A-21	H	H	SCHF <sub>2</sub>	H	H
	A-22	F	Ħ	SCHF <sub>2</sub>	Ħ	H
30	A-23	Cl	Ħ	SCHF <sub>2</sub>	Ħ	H
	A-24	CH3	Ħ	SCHF <sub>2</sub>	B	H
	A-25	CH <sub>2</sub> CH <sub>3</sub>	H	SCHF <sub>2</sub>	H	H
	A-26	Н	H	SCF <sub>3</sub>	н	H
35	A-27	F	H	SCF <sub>3</sub>	H	H
	A-28	Cl	H	SCF <sub>3</sub>	H	H
	A-29	CH <sub>3</sub>	н	SCF <sub>3</sub>	H .	H
	A-30	CH <sub>2</sub> CH <sub>3</sub>	H	SCF <sub>3</sub>	H	H
40	A-31	H	E	OCHF <sub>2</sub>	H	H
•	A-32	F	H	OCHF <sub>2</sub>	H	H
	A-33	Cl	H.	OCHF <sub>2</sub>	H	H
	A-34	CH <sub>3</sub>	H	OCHF <sub>2</sub>	H	Ħ
4-	A-35	CH <sub>2</sub> CH <sub>3</sub>	H	OCHF <sub>2</sub>	H	H
45	A-36	н	н	OCF <sub>3</sub>	H	日
	A-37	F	н	OCF <sub>3</sub>	H	H
	<del></del>	<u> </u>	<del>*</del>	<del></del>		





ſ	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R <sup>12</sup>	R13
Ī	A-38	Cl	н	OCF <sub>3</sub>	Н	H
	A-39	CH3	н	OCF <sub>3</sub>	H	Ħ
5	A-40	CH <sub>2</sub> CH <sub>3</sub>	Н	OCF <sub>3</sub>	H	H
_	A-41	н	Н	F	F	H
	A-42	F	H	F	F	H
	A-43	Cl	Ħ	F	F	H
	A-44	CH₃	H	F	F	H
10	A-45	CH <sub>2</sub> CH <sub>3</sub>	H	F	F	H
	A-46	H	H	Cl	F	Н
ı	A-47	F	H	Cl	F	H
	A-48	Cl	H	Cl	F	H
15	A-49	CH₃	H	Cl	F	H
	A-50	CH <sub>2</sub> CH <sub>3</sub>	Н	Cl	F	H
	A-51	H	н	CHF <sub>2</sub>	F	H
	A-52	F	Н	CHF <sub>2</sub>	F	H
20	A-53	Cl	H	CHF <sub>2</sub>	F	H
	A-54	CH <sub>3</sub>	H	CHF <sub>2</sub>	F	H
	A-55	CH <sub>2</sub> CH <sub>3</sub>	H	CHF <sub>2</sub>	F	H
	A-56	H .	н	CF <sub>3</sub>	F	H
25	A-57	F	H	CF <sub>3</sub>	F	H
23	A-58	Cl	В	CF <sub>3</sub>	F	H
	A-59	CH <sub>3</sub>	H	CF <sub>3</sub>	F	H
	A-60	CH <sub>2</sub> CH <sub>3</sub>	H	CF <sub>3</sub>	F	H
	A-61	Н	Ħ	SCHF <sub>2</sub>	F	H
30	A-62	F	H	SCHF <sub>2</sub>	F	H
	A-63	Cl	н	SCHF <sub>2</sub>	F	H
	A-64	CH <sub>3</sub>	Н	SCHF <sub>2</sub>	F	Н
	A-65	CH <sub>2</sub> CH <sub>3</sub>	H	SCHF <sub>2</sub>	F	H
35	A-66	Н	H	SCF <sub>3</sub>	F	H
	A-67	F	H	SCF <sub>3</sub>	F	H
	A-68	C1	Ħ	SCF <sub>3</sub>	F	H
	A-69	CH <sub>3</sub>	H	SCF <sub>3</sub>	F	H
40	A-70	CH <sub>2</sub> CH <sub>3</sub>	H	SCF <sub>3</sub>	F	H
	A-71	н	Н	OCHF <sub>2</sub>	F	Н
	A-72	F	н	OCHF <sub>2</sub>	F	H
	A-73	Cl	н	OCHF <sub>2</sub>	F	H
A F	A-74	CH <sub>3</sub>	Н	OCHF <sub>2</sub>	F	H
45	A-75	CH <sub>2</sub> CH <sub>3</sub>	Ħ	OCHF <sub>2</sub>	F	H
	A-76	H	н	OCF <sub>3</sub>	F	H

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	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R12	R <sup>13</sup>
	A-77	F	H	OCF <sub>3</sub>	F	H
	A-78	Cl	Ħ	OCF <sub>3</sub>	F	H
5	A-79	CH <sub>3</sub>	H	OCF <sub>3</sub>	F	H
	08-A	CH <sub>2</sub> CH <sub>3</sub>	H	OCF <sub>3</sub>	F	H
	A-81	H	H	F	Cl	Н
	A-82	F	H	F	Cl	Н
•	A-83	Cl	H	F	Cl	Н
10	A-84	CH <sub>3</sub>	H	F	Cl	H
	A-85	CH <sub>2</sub> CH <sub>3</sub>	H	F	C1	H
	A-86	Н	H	Cl	Cl	H .
	A-87	F	H	Cl	C1	H
15	A-88	C1	H	Cl	Cl	H
	A-89	CH <sub>3</sub>	Ħ	Cl	Cl	H
	A-90	СH <sub>2</sub> CH <sub>3</sub>	н	Cl	Cl	H
	A-91	н	Н	CHF <sub>2</sub>	Cl	H
20	A-92	F	H	CHF <sub>2</sub>	Cl	Ħ
	A-93	Cl	Н	CHF <sub>2</sub>	Cl	н
	A-94	CH <sub>3</sub>	н	CHF <sub>2</sub>	Cl	н
	A-95	CH <sub>2</sub> CH <sub>3</sub>	Ħ	CHF <sub>2</sub>	Cl	н
25	A-96	Н	Н	CF <sub>3</sub>	Cl	H
	A-97	F	H	CF <sub>3</sub>	Cl	H
	A-98	Cl	H	CF <sub>3</sub>	Cl	H
	A-99	CH <sub>3</sub>	H	CF <sub>3</sub>	Cl	Ħ
	A-100	CH <sub>2</sub> CH <sub>3</sub>	н	CF <sub>3</sub>	Cl	Ħ
30	A-101	H	H	SCHF <sub>2</sub>	Cl	Ħ
	A-102	F	H	SCHF <sub>2</sub>	Cl	H
	A-103	Cl	H	SCHF <sub>2</sub>	Cl	H
	A-104	CH <sub>3</sub>	H	SCHF <sub>2</sub>	C1 -	H
35	A-105	CH <sub>2</sub> CH <sub>3</sub>	H .	SCHF <sub>2</sub>	Cl	H.
	A-106	H	H	SCF <sub>3</sub>	Cl	H
	A-107	F	H	SCF <sub>3</sub>	Cl	H
	A-108	Cl	Н	SCF <sub>3</sub>	Cl	H
40	A-109	CH <sub>3</sub>	H	SCF <sub>3</sub>	Cl	H
	A-110 -	CH <sub>2</sub> CH <sub>3</sub>	H	SCF <sub>3</sub>	Cl	H
	A-111	H	H	OCHF <sub>2</sub>	Cl	H
	A-112	F	н	OCHF <sub>2</sub>	Cl	B
<i>a</i> =-	A-113	Cl	H	OCHF <sub>2</sub>	Cl	H
45	A-114	CH <sub>3</sub>	Н	OCHF <sub>2</sub>	Cl	H
	A-115	CH <sub>2</sub> CH <sub>3</sub>	H	OCHF <sub>2</sub>	Cl	Н
		<del></del>		<del></del>	<del></del>	





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[1	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R12	R <sup>13</sup>			
1	A-116	H	H	OCF <sub>3</sub>	Cl	H			
T.	A-117	F	Н	OCF <sub>3</sub>	Cl	H			
5	A-118	Cl	H	OCF <sub>3</sub>	Cl	H			
	A-119	CH <sub>3</sub>	H	OCF <sub>3</sub>	Cl	H			
- 1	A-120	CH <sub>2</sub> CH <sub>3</sub>	H	OCF <sub>3</sub>	Cl	H			
t	A-121	H	H	F	CHF <sub>2</sub>	H			
ł	A-122	F	H	F	CHF <sub>2</sub>	н			
10	A-123	Cl	H	F	CHF <sub>2</sub>	H			
ł	A-124	CH <sub>3</sub>	н	F	CHF <sub>2</sub>	H			
	A-125	CH <sub>2</sub> CH <sub>3</sub>	H	F	CHF <sub>2</sub>	H			
Ł	A-126	H	H	Cl	CHF <sub>2</sub>	H			
15	A-127	F	В	C1	CHF <sub>2</sub>	E			
	A-128	Cl	н	Cl	CHF <sub>2</sub>	日			
	A-129	CH <sub>3</sub>	H	Cl	CHF <sub>2</sub>	H			
	A-130	CH <sub>2</sub> CH <sub>3</sub>	н	Cl	CHF <sub>2</sub>	H			
20	A-131	H	H	CHF2	CHF <sub>2</sub>	H			
	A-132	F	H	CHF2	CHF <sub>2</sub>	H			
	A-133	Cl	H	CHF2	CHF <sub>2</sub>	H			
	A-134	CH <sub>3</sub>	Ħ	CHF2	CHF <sub>2</sub>	H			
	A-135	CH <sub>2</sub> CH <sub>3</sub>	H	CHF2	CHF <sub>2</sub>	H			
25	A-136	н	H	CF <sub>3</sub>	CHF <sub>2</sub>	Ħ			
	A-137	F	H	CF <sub>3</sub>	CHF <sub>2</sub>	H			
	A-138	Cl	H	CF <sub>3</sub>	CHF <sub>2</sub>	H			
	A-139	CH <sub>3</sub>	H	CF <sub>3</sub>	CHF <sub>2</sub>	H			
30	A-140	CH <sub>2</sub> CH <sub>3</sub>	Н	CF <sub>3</sub>	CHF <sub>2</sub>	H			
	A-141	H	H	SCHF <sub>2</sub>	CHF <sub>2</sub>	H			
	A-142	F	H	SCHF <sub>2</sub>	CHF <sub>2</sub>	н			
	A-143	Cl	H	SCHF <sub>2</sub>	CHF <sub>2</sub>	Н			
35	A-144	CH <sub>3</sub>	H	SCHF <sub>2</sub>	CHF <sub>2</sub>	H			
	A-145	CH <sub>2</sub> CH <sub>3</sub>	н	SCHF <sub>2</sub>	CHF <sub>2</sub>	H			
	A-146	н	H	SCF <sub>3</sub>	CHF <sub>2</sub>	H			
	A-147	F	H	SCF <sub>3</sub>	CHF <sub>2</sub>	H			
40	2 149	Cl	H	SCF <sub>3</sub>	CHF <sub>2</sub>	Н			
40	A-149	CH <sub>3</sub>	H	SCF <sub>3</sub>	CHF <sub>2</sub>	H			
	A-150	CH <sub>2</sub> CH <sub>3</sub>	H	SCF <sub>3</sub>	CHF <sub>2</sub>	Н			
	A-151	H	н	OCHF <sub>2</sub>	CHF <sub>2</sub>	H			
	A-152	F	Н	OCHF2	CHF <sub>2</sub>	H			
4	A-153	Cl	H	OCHF <sub>2</sub>	CHF <sub>2</sub>	H			
	A-154	СН3	Н	OCHF <sub>2</sub>	CHF <sub>2</sub>	H			
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	No.	R <sup>1</sup>	R <sup>2</sup>	R11	R12	R <sup>13</sup>
Γ	A-155	CH <sub>2</sub> CH <sub>3</sub>	H	OCHF <sub>2</sub>	CHF <sub>2</sub>	H
Γ	A-156	H	H	OCF <sub>3</sub>	CHF <sub>2</sub>	H
5	A-157	F	H	OCF <sub>3</sub>	CHF <sub>2</sub>	Ħ
	A-158	Cl	H	OCF <sub>3</sub>	CHF <sub>2</sub>	H
	A-159	CH <sub>3</sub>	H	OCF <sub>3</sub>	CHF <sub>2</sub>	Ħ
Ī	A-160	CH <sub>2</sub> CH <sub>3</sub>	H	OCF <sub>3</sub>	CHF <sub>2</sub>	H
	A-161	H	H	F	CF <sub>3</sub>	H
10	A-162	F	Н	F	CF <sub>3</sub>	H
İ	A-163	Cl	В	F	CF <sub>3</sub>	H
İ	A-164	CH <sub>3</sub>	H	F	CF <sub>3</sub>	H
	A-165	CH <sub>2</sub> CH <sub>3</sub>	Н	F	CF <sub>3</sub>	H
15	A-166	н	H	Cl	CF <sub>3</sub>	H
	A-167	F	H	Cl	CF <sub>3</sub>	H
	A-168	Cl	H	Cl	CF <sub>3</sub>	Ħ
	A-169	CH <sub>3</sub>	H	Cl	CF <sub>3</sub>	H
20	A-170	CH <sub>2</sub> CH <sub>3</sub>	Н	Cl	CF <sub>3</sub>	H
	A-171	Н	н	CHF2	CF <sub>3</sub>	Н
	A-172	F	H	CHF2	CF <sub>3</sub>	Н
	A-173	Cl	H	CHF2	CF <sub>3</sub>	Н
25	A-174	CH <sub>3</sub>	H	CHF2	CF <sub>3</sub>	Н
23	A-175	CH <sub>2</sub> CH <sub>3</sub>	H	CHF2	CF <sub>3</sub>	H
	A-176	H	H	CF <sub>3</sub>	CF <sub>3</sub>	н
	A-177	F	H	CF <sub>3</sub>	CF <sub>3</sub>	H
	A-178	Cl	H	CF <sub>3</sub>	CF <sub>3</sub>	H
30	A-179	CH <sub>3</sub>	H	CF <sub>3</sub>	CF <sub>3</sub>	H
	A-180	CH <sub>2</sub> CH <sub>3</sub>	Ħ	CF <sub>3</sub>	CF <sub>3</sub>	H
	A-181	H	H	SCHF <sub>2</sub>	CF <sub>3</sub>	H
	A-182	F	Н	SCHF <sub>2</sub>	CF <sub>3</sub>	H
35	A-183	Cl	Н	SCHF <sub>2</sub>	CF <sub>3</sub>	H
	A-184	CH <sub>3</sub>	H	SCHF <sub>2</sub>	CF <sub>3</sub>	H
	A-185	CH <sub>2</sub> CH <sub>3</sub>	H	SCHF <sub>2</sub>	CF <sub>3</sub>	H
	A-186	H	H	SCF <sub>3</sub>	CF <sub>3</sub>	B
40	A-187	F	H	SCF <sub>3</sub>	CF <sub>3</sub>	H
•	A-188	Cl	H	SCF <sub>3</sub>	CF <sub>3</sub>	H
	A-189	CH <sub>3</sub>	H	SCF <sub>3</sub>	CF <sub>3</sub>	H
	A-190	CH <sub>2</sub> CH <sub>3</sub>	H	SCF <sub>3</sub>	CF <sub>3</sub>	H
A P	A-191	Н	H	OCHF <sub>2</sub>	CF <sub>3</sub>	H
45	A-192	F	H	OCHF <sub>2</sub>	CF <sub>3</sub>	н
	A-193	Cl	н	OCHF <sub>2</sub>	CF <sub>3</sub>	H





ſ	No.	$\mathbb{R}^1$	R <sup>2</sup>	R <sup>11</sup>	R <sup>12</sup>	R <sup>13</sup>
	A-194	CH <sub>3</sub>	н	OCHF <sub>2</sub>	CF <sub>3</sub>	H
L	A-195	CH <sub>2</sub> CH <sub>3</sub>	H	OCHF <sub>2</sub>	CF <sub>3</sub>	H
L	A-196	Н	H	OCF <sub>3</sub>	CF <sub>3</sub>	Н
2 L	A-197	F	н	OCF <sub>3</sub>	CF <sub>3</sub>	н
L	A-198	Cl	н	OCF <sub>3</sub>	CF <sub>3</sub>	H
L	A-199	CH <sub>3</sub>	н	OCF <sub>3</sub>	CF <sub>3</sub>	H
L	A-200	CH <sub>2</sub> CH <sub>3</sub>	H	OCF <sub>3</sub>	CF <sub>3</sub>	H
10 L	A-201	н	н	F	H	F
ţ	A-202	F	н	F	н	F
ı	A-203	cı	H	F	H	F
1	A-204	CH <sub>3</sub>	Н	F	Н	F
15	A-205	CH <sub>2</sub> CH <sub>3</sub>	н	F	H	F
	A-206	н	H	Cl	н	F
	A-207	F	н	Cl	н	F
	A-208	C1	H	Cl	Н	F
20	A-209	CH <sub>3</sub>	B	Cl	Н	F
	A-210	CH <sub>2</sub> CH <sub>3</sub>	н	Cl	H	F
	A-211	Н	н	CHF2	H	F
	A-212	F	H	CHF2	H	F
	A-213	Cl	H	CHF2	Ħ	F
25	A-214	CH <sub>3</sub>	Н	CHF2	Ħ	F
	A-215	CH <sub>2</sub> CH <sub>3</sub>	H	CHF2	H	F
	A-216	H	Н	CF <sub>3</sub>	H	F
	A-217	F	H	CF <sub>3</sub>	H	F
30	A-218	Cl	H	CF <sub>3</sub>	H	F
	A-219	CH <sub>3</sub>	H	CF <sub>3</sub>	H	F
	A-220	CH <sub>2</sub> CH <sub>3</sub>	H	CF <sub>3</sub>	H	F
	A-221	H	H	SCHF <sub>2</sub>	Н	F
35	A-222	F	Н	SCHF <sub>2</sub>	H	F
	A-223	Cl	н	SCHF <sub>2</sub>	H	F
	A-224	CH <sub>3</sub>	H	SCHF <sub>2</sub>	H	F
	A-225	CH <sub>2</sub> CH <sub>3</sub>	Н	SCHF <sub>2</sub>	H	F
40	A-226	H	H	SCF <sub>3</sub>	H	F
	A-227	F	Н	SCF <sub>3</sub>	H	F
	A-228	Cl	H	SCF <sub>3</sub>	H	F
	A-229	CH <sub>3</sub>	H	SCF <sub>3</sub>	H	F
	A-230	CH₂CH₃	H	SCF <sub>3</sub>	H	F
45	A-231	H	н	OCHF <sub>2</sub>	H	F
	A-232	F	H	OCHF <sub>2</sub>	H	





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1_		1	R <sup>2</sup>			R13
	A-233	Cl	H	OCHF <sub>2</sub>	H	F
	A-234	CH <sub>3</sub>	H	OCHF <sub>2</sub>	H	F
5	A-235	CH <sub>2</sub> CH <sub>3</sub>	H	OCHF <sub>2</sub>	Н	F
Ī	A-236	H	H	OCF <sub>3</sub>	H	F
	A-237	F	H	OCF <sub>3</sub>	Н	F
Ī	A-238	Cl	B	OCF <sub>3</sub>	н	F
	A-239	CH <sub>3</sub>	H	OCF <sub>3</sub>	H	F
10	A-240	CH <sub>2</sub> CH <sub>3</sub>	H	OCF <sub>3</sub>	H	F
Ī	A-241	H	H	F	F	F
	A-242	F	H	F	F	F
	A-243	Cl	H	F	F	F
15	A-244	CH <sub>3</sub>	H	F	F	F
	A-245	СH <sub>2</sub> CH <sub>3</sub>	н	F	F	F
	A-246	H	H	Cl	F	F
	A-247	F	H	Cl	F	F
20	A-248	Cl	H	Cl	F	F
	A-249	CH <sub>3</sub>	H	Cl	F	F
	A-250	CH <sub>2</sub> CH <sub>3</sub>	H	Cl	F	F
	A-251	н	H	CHF2	F.	F
25	A-252	F	Н	CHF2	F	F
25	A-253	Cl	H	CHF2	F	F
	A-254	CH <sub>3</sub>	H	CHF2	F	F
	A-255	CH <sub>2</sub> CH <sub>3</sub>	Н	CHF2	F	F
	A-256	H	н	CF <sub>3</sub>	F	F
30	A-257	F	H	CF <sub>3</sub>	F	F
	A-258	Cl	H	CF <sub>3</sub>	F	F
	A-259	CH <sub>3</sub>	H .	CF <sub>3</sub>	F	F
	A-260	CH <sub>2</sub> CH <sub>3</sub>	Н	CF <sub>3</sub>	F	F
35	A-261	H	H	SCHF <sub>2</sub>	F	F
	A-262	F	H	SCHF <sub>2</sub>	F	F
	A-263	Cl	Н	SCHF <sub>2</sub>	F	F
	A-264	CH3	H	SCHF <sub>2</sub>	F	F
40	A-265	CH <sub>2</sub> CH <sub>3</sub>	H	SCHF <sub>2</sub>	F	F
-	A-266	H	H .	SCF <sub>3</sub>	F	F
	A-267	F	H	SCF <sub>3</sub>	F	F
	A-268	Cl	H	SCF <sub>3</sub>	F	F
	A-269	CH <sub>3</sub>	H	SCF <sub>3</sub>	F	F ·
45	A-270	CH <sub>2</sub> CH <sub>3</sub>	н	SCF <sub>3</sub>	F	F
	A-271	E	Н	OCHF <sub>2</sub>	F	F

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F	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R <sup>12</sup>	R <sup>13</sup>
ŀ	A-272	F	H	OCHF <sub>2</sub>	F	F
ŀ	A-273	Cl	н	OCHF <sub>2</sub>	F	F
5	A-274	CH <sub>3</sub>	H	OCHF <sub>2</sub>	F	F
_	A-275	CH <sub>2</sub> CH <sub>3</sub>	Ħ	OCHF <sub>2</sub>	F	F
t	A-276	H	Ħ	OCF <sub>3</sub>	F	F
İ	A-277	F	Ħ	OCF <sub>3</sub>	F	F
	A-278	Cl	H	OCF <sub>3</sub>	F	F
10	A-279	CH <sub>3</sub>	B	OCF <sub>3</sub>	F	F
	A-280	CH <sub>2</sub> CH <sub>3</sub>	Н	OCF <sub>3</sub>	F	F
	A-281	H	H	F	Cl	F
	A-282	F	Н	F	Cl	F
15	A-283	Cl	Н	F	C1	F
	A-284	CH <sub>3</sub>	E .	F	Cl	F
	A-285	CH <sub>2</sub> CH <sub>3</sub>	H	F	Cl	F
	A-286	H	H	Cl	Cl	F
20	A-287	F	H	Cl	Cl	F
	A-288	Cl	H	Cl	Cl	F
	A-289	CH <sub>3</sub>	H	Cl	Cl	F
	A-290	CH <sub>2</sub> CH <sub>3</sub>	н	Cl	Cl	F
25	A-291	H	H	CHF2	Cl	F
2.5	A-292	F	Ħ	CHF2	Cl	F
	A-293	Cl	H	CHF2	Cl	F
	A-294	CH <sub>3</sub>	H	CHF2	Cl	F
	A-295	CH <sub>2</sub> CH <sub>3</sub>	H	CHF2	Cl	F
30	A-296	H	н	CF <sub>3</sub>	Cl	F
	A-297	F	H	CF <sub>3</sub>	Cl	F
	A-298	Cl	H	CF <sub>3</sub>	Cl	F
	A-299	CH <sub>3</sub>	H	CF <sub>3</sub>	Cl	F
35	A-300	CH <sub>2</sub> CH <sub>3</sub>	H	CF <sub>3</sub>	Cl	F
	A-301	H	В	SCHF <sub>2</sub>	C1	F
	A-302	F	H	SCHF <sub>2</sub>	Cl	F
	A-303	Cl	н	SCHF <sub>2</sub>	C1	F
40	A-304	CH <sub>3</sub>	H	SCHF <sub>2</sub>	Cl	F
	A-305	CH <sub>2</sub> CH <sub>3</sub>	H	SCHF <sub>2</sub>	Cl	F
	A-306	н	H	SCF <sub>3</sub>	Cl	F
	A-307	F	H	SCF <sub>3</sub>	Cl	F
45	A-308	Cl	H	SCF <sub>3</sub>	C1	F
-2-3	A-309	CH <sub>3</sub>	н	SCF <sub>3</sub>	Cl	F
	A-310	CH <sub>2</sub> CH <sub>3</sub>	H	SCF <sub>3</sub>	Cl	F

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	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R <sup>12</sup>	R <sup>13</sup> .
	A-311	R	H	OCHF <sub>2</sub>	Cl	F
Ī	A-312	F	H	OCHF <sub>2</sub>	Cl	F
5	A-313	Cl	H	OCHF <sub>2</sub>	Cl	F
	A-314	CH <sub>3</sub>	H	OCHF <sub>2</sub>	C1	F
	A-315	CH <sub>2</sub> CH <sub>3</sub>	H	OCHF <sub>2</sub>	Cl	F
	A-316	H	H	OCF <sub>3</sub>	Cl	F
	A-317	F	H	OCF <sub>3</sub>	Cl	F
10	A-318	Cl	H	OCF <sub>3</sub>	Cl	F
	A-319	CH <sub>3</sub>	H	OCF <sub>3</sub>	C1	F
	A-320	CH₂CH3	H	OCF <sub>3</sub>	Cl	F
	A-321	H	H	F	CHF <sub>2</sub>	F
15	A-322	F	H	F	CHF <sub>2</sub>	F
	A-323	Cl	Ħ	F	CHF <sub>2</sub>	F
	A-324	CH <sub>3</sub>	H	F	CHF <sub>2</sub>	F
	A-325	CH <sub>2</sub> CH <sub>3</sub>	H	F	CHF <sub>2</sub>	F
20	A-326	H	н	Cl	CHF <sub>2</sub>	F
	A-327	F	н	Cl	CHF <sub>2</sub>	F
	A-328	cı	H	Cl	CHF <sub>2</sub>	F
	A-329	CH <sub>3</sub>	H	C1	CHF <sub>2</sub>	F
25	A-330	CH <sub>2</sub> CH <sub>3</sub>	H	Cl	CHF <sub>2</sub>	F
23	A-331	H	H	CHF2	CHF <sub>2</sub>	F
	A-332	F	Н	CHF2	CHF <sub>2</sub>	F
	A-333	Cl	H	CHF2	CHF <sub>2</sub>	F
	A-334	CH <sub>3</sub>	H	CHF2	CHF <sub>2</sub>	F
30	A-335	CH <sub>2</sub> CH <sub>3</sub>	H	CHF2	CHF <sub>2</sub>	F
	A-336	н	H	CF <sub>3</sub>	CHF <sub>2</sub>	F
	A-337	F	H	CF <sub>3</sub>	CHF <sub>2</sub>	F
	A-338	Cl	H	CF <sub>3</sub>	CHF <sub>2</sub>	F
35	A-339	CH <sub>3</sub>	H	CF <sub>3</sub>	CHF <sub>2</sub>	F
	A-340	CH <sub>2</sub> CH <sub>3</sub>	H	CF <sub>3</sub>	CHF <sub>2</sub>	F
	A-341	H	H	SCHF <sub>2</sub>	CHF <sub>2</sub>	F
	A-342	F	н	SCHF <sub>2</sub>	CHF <sub>2</sub>	F
40	A-343	Cl	H	SCHF <sub>2</sub>	CHF <sub>2</sub>	F
	A-344	CH <sub>3</sub>	н	SCHF <sub>2</sub>	CHF <sub>2</sub>	F
	A-345	CH <sub>2</sub> CH <sub>3</sub>	H	SCHF <sub>2</sub>	CHF <sub>2</sub>	F
	A-346	Н	H	SCF <sub>3</sub>	CHF <sub>2</sub>	F
4-	A-347	F	н	SCF <sub>3</sub>	CHF <sub>2</sub>	F
45	A-348	Cl	H	SCF <sub>3</sub>	CHF <sub>2</sub>	F
	A-349	CH <sub>3</sub>	H	SCF <sub>3</sub>	CHF <sub>2</sub>	F



			40			
Ţi	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R <sup>12</sup>	R <sup>13</sup>
į.	A-350	CH <sub>2</sub> CH <sub>3</sub>	H	SCF <sub>3</sub>	CHF <sub>2</sub>	F
į.	A-351	Ħ	H	OCHF <sub>2</sub>	CHF <sub>2</sub>	F
5	A-352	F	H	OCHF <sub>2</sub>	CHF <sub>2</sub>	F
_	A-353	Cl	н	OCHF <sub>2</sub>	CHF <sub>2</sub>	F
t	A-354	CH <sub>3</sub>	H	OCHF <sub>2</sub>	CHF <sub>2</sub>	F
t	A-355	CH <sub>2</sub> CH <sub>3</sub>	н	OCHF <sub>2</sub>	CHF <sub>2</sub>	F
	A-356	H	H	OCF <sub>3</sub>	CHF <sub>2</sub>	F
10	A-357	F	H	OCF <sub>3</sub>	CHF <sub>2</sub>	F
	A-358	Cl	H	OCF <sub>3</sub>	CHF <sub>2</sub>	F
	A-359	CH <sub>3</sub>	H	OCF <sub>3</sub>	CHF <sub>2</sub>	F
	A-360	CH <sub>2</sub> CH <sub>3</sub>	H	OCF <sub>3</sub>	CHF <sub>2</sub>	F
15	A-361	н	H	F	CF <sub>3</sub>	F
	A-362	F	H	F	CF <sub>3</sub>	F
	A-363	Cl	н	F	CF <sub>3</sub>	F
	A-364	CH <sub>3</sub>	H	F	CF <sub>3</sub>	F
20	A-365	CH <sub>2</sub> CH <sub>3</sub>	H	F	CF <sub>3</sub>	F
	A-366	H	H	Cl	CF <sub>3</sub>	F
	A-367	F	н	Cl	CF <sub>3</sub>	F
	A-368	Cl	н	Cl	CF <sub>3</sub>	F
25	A-369	CH <sub>3</sub>	н	Cl	CF <sub>3</sub>	F
25	A-370	CH <sub>2</sub> CH <sub>3</sub>	H	Cl	CF <sub>3</sub>	F
	A-371	H	H	CHF2	CF <sub>3</sub>	F
	A-372	F	H	CHF2	CF <sub>3</sub>	F
	A-373	C1	н	CHF2	CF <sub>3</sub>	F
30	A-374	CH <sub>3</sub>	н	CHF2	CF <sub>3</sub>	F
	A-375	CH <sub>2</sub> CH <sub>3</sub>	H	CHF2	CF <sub>3</sub>	F
	A-376	Н	H	CF <sub>3</sub>	CF <sub>3</sub>	F
	A-377	F	H	CF <sub>3</sub>	CF <sub>3</sub>	F
35	A-378	Cl	H	CF <sub>3</sub>	CF <sub>3</sub>	F
	A-379	CH <sub>3</sub>	Н	CF <sub>3</sub>	CF <sub>3</sub>	F
	A-380	CH <sub>2</sub> CH <sub>3</sub>	H	CF <sub>3</sub>	CF <sub>3</sub>	F
	A-381	Н	H	SCHF <sub>2</sub>	CF <sub>3</sub>	F
40	A-382	F	H	SCHF <sub>2</sub>	CF <sub>3</sub>	F
	A-383	Cl	H	SCHF <sub>2</sub>	CF <sub>3</sub>	F
	A-384	CH <sub>3</sub>	H	SCHF <sub>2</sub>	CF <sub>3</sub>	F
	A-385	CH <sub>2</sub> CH <sub>3</sub>	н	SCHF <sub>2</sub>	CF <sub>3</sub>	F
_	A-386	H	н	SCF <sub>3</sub>	CF <sub>3</sub>	F
4!	A-387	F	Н	SCF <sub>3</sub>	CF <sub>3</sub>	F
	A-388	Cl	H	SCF <sub>3</sub>	CF <sub>3</sub>	F

ſ	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R12	R <sup>13</sup>
L	A-389		H	SCF <sub>3</sub>	CF <sub>3</sub>	F
- 1	A-390		Ħ	SCF <sub>3</sub>	CF <sub>3</sub>	F
ł	A-391		H	OCHF <sub>2</sub>	CF <sub>3</sub>	F
3	A-392		H	OCHF <sub>2</sub>	CF <sub>3</sub>	F
	A-393		H	OCHF <sub>2</sub>	CF <sub>3</sub>	F
	A-394		H	OCHF <sub>2</sub>	CF <sub>3</sub>	F
	A-395		H	OCHF <sub>2</sub>	CF <sub>3</sub>	F
10	A-396	н	В	OCF <sub>3</sub>	CF <sub>3</sub>	F
	A-397	F	H	OCF <sub>3</sub>	CF <sub>3</sub>	F
	A-398	Cl	H	OCF <sub>3</sub>	CF <sub>3</sub>	F
	A-399	CH <sub>3</sub>	H :	OCF <sub>3</sub>	CF <sub>3</sub>	F
15	A-400	CH <sub>2</sub> CH <sub>3</sub>	H	OCF <sub>3</sub>	CF <sub>3</sub>	F
	A-401	н	H	F	H	Cl
	A-402	F	B	F	H	Cl
	A-403	Cl	B	F	Ħ	C1
20	A-404	CH <sub>3</sub>	H	F	H	Cl
	A-405	CH <sub>2</sub> CH <sub>3</sub>	H	F	н	Cl
	A-406	H	H	Cl	н	Cl
•	A-407	F	H	Cl	H	Cl
25	A-408	Cl	H	Cl	H	Cl
2,5	A-409	CH <sub>3</sub>	H	Cl	H	Cl
	A-410	CH <sub>2</sub> CH <sub>3</sub>	H	Cl	Ħ	Cl
	A-411	H	H	CHF2	H	Cl
	A-412	F	H	CHF2	H	Cl
30	A-413	Cl	H	CHF2	H	Cl
	A-414	CH3	Ħ	CHF2	В	Cl
	A-415	CH <sub>2</sub> CH <sub>3</sub>	H	CHF2	H	Cl
	A-416	H	H	CF <sub>3</sub>	H	Cl
35	A-417	F	H	CF <sub>3</sub>	H	Cl
	A-418	Cl	H	CF <sub>3</sub>	H	C1
	A-419	CH3	H	CF <sub>3</sub>	H	Cl
	A-420	CH <sub>2</sub> CH <sub>3</sub>	H	CF <sub>3</sub>	H	C1
40		H	H	SCHF <sub>2</sub>	H	C1
	A-422	F	H	SCHF <sub>2</sub>	H	Cl
	A-423	Cl	H	SCHF <sub>2</sub>	H	C1
	A-424	CH <sub>3</sub>	H	SCHF <sub>2</sub>	H	C1
45	A-425	CH <sub>2</sub> CH <sub>3</sub>	H	SCHF <sub>2</sub>	H	C1
	A-426	H	H	SCF <sub>3</sub>	H	Cl
	A-427	F	H	SCF <sub>3</sub>	B	Cl





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Γ	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R <sup>12</sup>	R <sup>13</sup>		
T	A-428	cl	Н	SCF <sub>3</sub>	H	Cl		
Ţ	A-429	CH <sub>3</sub>	H	SCF <sub>3</sub>	H	Cl		
5	A-430	CH <sub>2</sub> CH <sub>3</sub>	Н	SCF <sub>3</sub>	H	Cl		
	A-431	H	H	OCHF <sub>2</sub>	H	Cl		
ı	A-432	F	H	OCHF <sub>2</sub>	H	Cl		
Ì	A-433	Cl	H	OCHF <sub>2</sub>	H	Cl		
	A-434	CH <sub>3</sub>	H	OCHF <sub>2</sub>	H	Cl		
10	A-435	CH <sub>2</sub> CH <sub>3</sub>	H	OCHF <sub>2</sub>	H	Cl		
Ì	A-436	H	H	OCF <sub>3</sub>	H	Cl		
	A-437	F	Н	OCF <sub>3</sub>	H	Cl		
	A-438	Cl	H	OCF <sub>3</sub>	H	Cl		
15	A-439	CH <sub>3</sub>	H	OCF <sub>3</sub>	н	Cl		
	A-440	CH <sub>2</sub> CH <sub>3</sub>	H	OCF <sub>3</sub>	Н	Cl		
	A-441	H	Ħ	F	F	Cl		
	A-442	F	H	F	F	Cl		
20	A-443	Cl	H	F	F	Cl		
	A-444	CH <sub>3</sub>	H	F	F	Cl		
	A-445	CH <sub>2</sub> CH <sub>3</sub>	B	F	F	Cl		
	A-446	H	н	Cl	F	Cl		
25	A-447	F	H	Cl	F	Cl		
25	A-448	Cl	H	Cl	F	Cl		
	A-449	CH <sub>3</sub>	н	Cl	F	Cl		
	A-450	CH <sub>2</sub> CH <sub>3</sub>	H	Cl	F	Cl		
	A-451	Н	H	CHF2	F	Cl		
30	A-452	F	H	CHF2	F	Cl		
	A-453	Cl	Н	CHF2	F	C1		
	A-454	CH <sub>3</sub>	Н	CHF2	F	C1		
	A-455	CH <sub>2</sub> CH <sub>3</sub>	Н	CHF2	F	Cl		
35	A-456	H	H	CF <sub>3</sub>	F	Cl		
	A-457	F	Н	CF <sub>3</sub>	F	Cl		
	A-458	Cl	н	CF <sub>3</sub>	F	Cl		
	A-459	CH <sub>3</sub>	В	CF <sub>3</sub>	F	Cl		
40	A-460	CH <sub>2</sub> CH <sub>3</sub>	H	CF <sub>3</sub>	F	C1		
-	A-461	H	н	SCHF <sub>2</sub>	F	cl		
	A-462	F	H	SCHF <sub>2</sub>	F	Cl		
	A-463	Cl	H	SCHF <sub>2</sub>	F	Cl		
	A-464	CH <sub>3</sub>	H	SCHF <sub>2</sub>	F	Cl		
45	A-465	CH <sub>2</sub> CH <sub>3</sub>	H	SCHF <sub>2</sub>	F	Cl		
	A-466	н	н	SCF <sub>3</sub>	F	Cl		

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A-467 F H SCF <sub>3</sub> F C A-468 Cl H SCF <sub>3</sub> F C A-469 CH <sub>3</sub> H SCF <sub>3</sub> F C A-470 CH <sub>2</sub> CH <sub>3</sub> H SCF <sub>3</sub> F C A-471 H H GCHF <sub>2</sub> F C A-472 F H OCHF <sub>2</sub> F C A-473 Cl H OCHF <sub>2</sub> F C A-474 CH <sub>3</sub> H OCHF <sub>2</sub> F C A-475 CH <sub>2</sub> CH <sub>3</sub> H OCHF <sub>2</sub> F C A-476 H H OCF <sub>3</sub> F C A-477 F H OCF <sub>3</sub> F C A-478 Cl H OCF <sub>3</sub> F C A-479 CH <sub>3</sub> H OCF <sub>3</sub> F C A-480 CH <sub>2</sub> CH <sub>3</sub> H OCF <sub>3</sub> F C A-481 H H F Cl	C1
A-468 C1 H SCF <sub>3</sub> F C A-469 CH <sub>3</sub> H SCF <sub>3</sub> F C A-470 CH <sub>2</sub> CH <sub>3</sub> H SCF <sub>3</sub> F C A-471 H H H C OCHF <sub>2</sub> F C A-472 F H OCHF <sub>2</sub> F C A-473 C1 H OCHF <sub>2</sub> F C A-474 CH <sub>3</sub> H OCHF <sub>2</sub> F C A-475 CH <sub>2</sub> CH <sub>3</sub> H OCHF <sub>2</sub> F C A-476 H H OCF <sub>3</sub> F C A-477 F H OCF <sub>3</sub> F C A-478 C1 H OCF <sub>3</sub> F C A-479 CH <sub>3</sub> H OCF <sub>3</sub> F C A-480 CH <sub>2</sub> CH <sub>3</sub> H OCF <sub>3</sub> F C A-481 H H F C1 C1	c1
5       A-469       CH3       H       SCF3       F       C         A-470       CH2CH3       H       SCF3       F       C         A-471       H       H       H       OCHF2       F       C         A-472       F       H       OCHF2       F       C         A-473       Cl       H       OCHF2       F       C         A-474       CH3       H       OCHF2       F       C         A-475       CH2CH3       H       OCF3       F       C         A-476       H       H       OCF3       F       C         A-477       F       H       OCF3       F       C         A-478       Cl       H       OCF3       F       C         A-480       CH2CH3       H       OCF3       F       C         A-481       H       H       F       Cl       C         20       A-482       F       H       F       Cl       C	c1
A-470	c1
A-471	c1
A-472 F H OCHF <sub>2</sub> F C A-473 Cl H OCHF <sub>2</sub> F C A-474 CH <sub>3</sub> H OCHF <sub>2</sub> F C A-475 CH <sub>2</sub> CH <sub>3</sub> H OCHF <sub>2</sub> F C A-476 H H OCF <sub>3</sub> F C A-477 F H OCF <sub>3</sub> F C A-478 Cl H OCF <sub>3</sub> F C A-479 CH <sub>3</sub> H OCF <sub>3</sub> F C A-480 CH <sub>2</sub> CH <sub>3</sub> H OCF <sub>3</sub> F C A-481 H H F Cl	c1
A-473 C1 H OCHF <sub>2</sub> F C A-474 CH <sub>3</sub> H OCHF <sub>2</sub> F C A-475 CH <sub>2</sub> CH <sub>3</sub> H OCHF <sub>2</sub> F C A-476 H H OCF <sub>3</sub> F C A-477 F H OCF <sub>3</sub> F C A-478 C1 H OCF <sub>3</sub> F C A-479 CH <sub>3</sub> H OCF <sub>3</sub> F C A-480 CH <sub>2</sub> CH <sub>3</sub> H OCF <sub>3</sub> F C A-481 H H F C1 C1	c1
10 A-474 CH <sub>3</sub> H OCHF <sub>2</sub> F C A-475 CH <sub>2</sub> CH <sub>3</sub> H OCHF <sub>2</sub> F A-476 H H OCF <sub>3</sub> F A-477 F H OCF <sub>3</sub> F A-478 Cl H OCF <sub>3</sub> F A-479 CH <sub>3</sub> H OCF <sub>3</sub> F A-480 CH <sub>2</sub> CH <sub>3</sub> H OCF <sub>3</sub> F A-481 H F Cl	C1 C1 C1 C1 C1
A-474	C1
A-476 H H OCF <sub>3</sub> F C A-477 F H OCF <sub>3</sub> F C A-478 Cl H OCF <sub>3</sub> F C A-479 CH <sub>3</sub> H OCF <sub>3</sub> F C A-480 CH <sub>2</sub> CH <sub>3</sub> H OCF <sub>3</sub> F C A-481 H H F Cl	C1 C1 C1 C1 C1
A-477 F H OCF <sub>3</sub> F C A-478 Cl H OCF <sub>3</sub> F C A-479 CH <sub>3</sub> H OCF <sub>3</sub> F C A-480 CH <sub>2</sub> CH <sub>3</sub> H OCF <sub>3</sub> F C A-481 H H F Cl	C1 C1 C1 C1
15 A-478 C1 H OCF <sub>3</sub> F C A-479 CH <sub>3</sub> H OCF <sub>3</sub> F C A-480 CH <sub>2</sub> CH <sub>3</sub> H OCF <sub>3</sub> F C A-481 H H F C1 C1	C1 C1 C1
A-479 CH <sub>3</sub> H OCF <sub>3</sub> F G A-480 CH <sub>2</sub> CH <sub>3</sub> H OCF <sub>3</sub> F A-481 H H F Cl	C1 C1
A-480 CH <sub>2</sub> CH <sub>3</sub> H OCF <sub>3</sub> F C A-481 H H F C1 C1	C1
A-481 H H F C1 C1 C1 C1	C1
20 A-482 F H F Cl	
	Cl
7 493	V-
A-483 C1 H F C1	Cl
A-484 CH <sub>3</sub> H F Cl	Cl
A-485 CH <sub>2</sub> CH <sub>3</sub> H F Cl	Cl
25 A-486 H H Cl Cl	Cl
A-487 F H Cl Cl	Cl
A-488 Cl H Cl Cl	Cl
A-489 CH <sub>3</sub> H Cl Cl	Cl
	Cl
	Cl
	Cl
	C1
	Cl
	Cl
	Cl
A-497 F H CF <sub>3</sub> C1	Cl
A-498 Cl H CF <sub>3</sub> Cl	Cl
40 A-499 CH <sub>3</sub> H CF <sub>3</sub> Cl	Cl
A-500 CH <sub>2</sub> CH <sub>3</sub> H CF <sub>3</sub> C1	Cl
A-501 H SCHF <sub>2</sub> Cl	Cl
A-502 F H SCHF <sub>2</sub> C1	Cl
A-503 C1 H SCHF <sub>2</sub> C1	Cl
A-504 CH <sub>3</sub> H SCHF <sub>2</sub> C1	Cl
A-505 CH <sub>2</sub> CH <sub>3</sub> H SCHF <sub>2</sub> Cl	C1

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F	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R12	R <sup>13</sup>
L			H	SCF <sub>3</sub>	C1	Cl
L			H	SCF <sub>3</sub>	Cl	Cl
ŀ	A-508		H	SCF <sub>3</sub>	Cl	Cl
ر د	A-509		H	SCF <sub>3</sub>	Cl .	Cl
- 1	A-510		Н	SCF <sub>3</sub>	Cl	Cl
L	A-511		H	OCHF <sub>2</sub>	Cl	Cl
Ł	A-512		H	OCHF <sub>2</sub>	Cl	Cl
10	A-513		H	OCHF <sub>2</sub>	C1	Cl
	A-514	CH <sub>3</sub>	Н	OCHF <sub>2</sub>	Cl	Cl
	A-515	CH <sub>2</sub> CH <sub>3</sub>	н	OCHF <sub>2</sub>	Cl	Cl
	A-516	H	Ħ	OCF <sub>3</sub>	Cl	Cl
15	A-517	F	H	OCF <sub>3</sub>	Cl	Cl
	A-518	Cl	H	OCF <sub>3</sub>	Cl	Cl
	A-519	CH <sub>3</sub>	H	OCF <sub>3</sub>	Cl	Cl
	A-520	CH <sub>2</sub> CH <sub>3</sub>	н	OCF <sub>3</sub>	Cl	Cl
20	A-521	Н	н	F	CHF <sub>2</sub>	Cl
	A-522	F	н	F	CHF <sub>2</sub>	Cl
	A-523	C1	H	F	CHF <sub>2</sub>	Cl
	A-524	СН3	H ·	F	CHF <sub>2</sub>	Cl
25	A-525	CH <sub>2</sub> CH <sub>3</sub>	Н	F	CHF <sub>2</sub>	Cl
25	A-526	H	Н	Cl	CHF <sub>2</sub>	Cl
	A-527	F	H	Cl	CHF <sub>2</sub>	Cl
	A-528	Cl	H	Cl	CHF <sub>2</sub>	Cl
	A-529	CH <sub>3</sub>	H	Cl	CHF <sub>2</sub>	Cl
30	A-530	CH <sub>2</sub> CH <sub>3</sub>	Н	Cl	CHF <sub>2</sub>	Cl
	A-531	н	Н	CHF2	CHF <sub>2</sub>	Cl
	A-532	F	Н	CHF2	CHF <sub>2</sub>	Cl
	A-533	Cl	H	CHF2	CHF <sub>2</sub>	C1
35	A-534	CH <sub>3</sub>	H	CHF2	CHF <sub>2</sub>	Cl
	A-535	CH <sub>2</sub> CH <sub>3</sub>	H	CHF2	CHF <sub>2</sub>	C1
	A-536	H	н	CF <sub>3</sub>	CHF <sub>2</sub>	Cl
	A-537	F	H	CF <sub>3</sub>	CHF <sub>2</sub>	Cl
40	A-538	Cl	H	CF <sub>3</sub>	CHF <sub>2</sub>	Cl
	A-539	CH <sub>3</sub>	H	CF <sub>3</sub>	CHF <sub>2</sub>	Cl
	A-540	CH <sub>2</sub> CH <sub>3</sub>	H	CF <sub>3</sub>	CHF <sub>2</sub>	Cl
	A-541	H	H	SCHF <sub>2</sub>	CHF <sub>2</sub>	Cl
	A-542	F	H	SCHF <sub>2</sub>	CHF <sub>2</sub>	Cl
45	A-543	Cl	Ħ	SCHF <sub>2</sub>	CHF <sub>2</sub>	Cl
	A-544	CH <sub>3</sub> ·	H	SCHF <sub>2</sub>	CHF <sub>2</sub>	Cl

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:	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R <sup>12</sup>	R <sup>13</sup>
	A-545	CH <sub>2</sub> CH <sub>3</sub>	Ħ	SCHF <sub>2</sub>	CHF <sub>2</sub>	Cl
	A-546	H	H	SCF <sub>3</sub>	CHF <sub>2</sub>	Cl
5	A-547	F	H	SCF <sub>3</sub>	CHF <sub>2</sub>	Cl
	A-548	Cl	H	SCF <sub>3</sub>	CHF <sub>2</sub>	Cl
	A-549	CH <sub>3</sub>	H	SCF <sub>3</sub>	CHF <sub>2</sub>	Cl
	A-550	CH <sub>2</sub> CH <sub>3</sub>	Ħ	SCF <sub>3</sub>	CHF <sub>2</sub>	Cl
10	A-551	H	Ħ	OCHF <sub>2</sub>	CHF <sub>2</sub>	Cl
	A-552	F	Ħ	OCHF <sub>2</sub>	CHF <sub>2</sub>	Cl
	A-553	Cl	H	OCHF <sub>2</sub>	CHF <sub>2</sub>	Cl
	A-554	CH <sub>3</sub>	B	OCHF <sub>2</sub>	CHF <sub>2</sub>	Cl
	A-555	CH <sub>2</sub> CH <sub>3</sub>	H	OCHF <sub>2</sub>	CHF <sub>2</sub>	C1
15	A-556	H	H	OCF <sub>3</sub>	CHF <sub>2</sub>	Cl
	A-557	F	H	OCF <sub>3</sub>	CHF <sub>2</sub>	Cl
ļ	A-558	Cl	H	OCF <sub>3</sub>	CHF <sub>2</sub>	Cl
	A-559	CH <sub>3</sub>	H	OCF <sub>3</sub>	CHF <sub>2</sub>	Cl
20	A-560	CH <sub>2</sub> CH <sub>3</sub>	H	OCF <sub>3</sub>	CHF <sub>2</sub>	C1
	A-561	н	H	F	CF3	C1
	A-562	F	H	F	CF <sub>3</sub>	Cl
	A-563	Cl	н	F	CF <sub>3</sub>	Cl
25	A-564	CH <sub>3</sub>	Н	F	CF <sub>3</sub>	C1
	A-565	CH <sub>2</sub> CH <sub>3</sub>	Ħ	F	CF <sub>3</sub>	Cl
	A-566	H	H	Cl	CF <sub>3</sub>	Cl
	A-567	F	H	Cl	CF <sub>3</sub>	Cl
20	A-568	Cl	H	Cl	CF <sub>3</sub>	Cl
30	A-569	CH <sub>3</sub>	H	Cl	CF <sub>3</sub>	Cl
	A-570	CH <sub>2</sub> CH <sub>3</sub>	Н	Cl	CF <sub>3</sub>	Cl
	A-571	田	H	CHF2	CF <sub>3</sub>	Cl
	A-572	F	H	CHF2	CF <sub>3</sub>	Cl
35	A-573	Cl	H	CHF2	CF <sub>3</sub>	Cl
	A-574	CH <sub>3</sub>	В	CHF2	CF <sub>3</sub>	Cl
	A-575	CH <sub>2</sub> CH <sub>3</sub>	H	CHF2	CF <sub>3</sub>	Cl
	A-576	H	Ħ	CF <sub>3</sub>	CF <sub>3</sub>	Cl
40	A-577	F	H	CF <sub>3</sub>	CF <sub>3</sub>	Cl
-	A-578	Cl	H	CF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-579	CH <sub>3</sub>	H	CF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-580	CH <sub>2</sub> CH <sub>3</sub>	н	CF <sub>3</sub>	CF <sub>3</sub>	Cl
45	A-581	H	H	SCHF <sub>2</sub>	CF <sub>3</sub>	Cl
7)	A-582	F	н	SCHF <sub>2</sub>	CF <sub>3</sub>	Cl
	A-583	Cl	Н	SCHF <sub>2</sub>	CF <sub>3</sub>	Cl





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Ţ.	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R12	R <sup>13</sup>	
Į.	A-584	CH <sub>3</sub>	H	SCHF <sub>2</sub>	CF <sub>3</sub>	Cl	
- [	A-585	CH <sub>2</sub> CH <sub>3</sub>	н	SCHF <sub>2</sub>	CF <sub>3</sub>	Cl	
5	A-586	Н	H	SCF <sub>3</sub>	CF <sub>3</sub>	Cl	
Ĭ	A-587	F	H	SCF <sub>3</sub>	CF <sub>3</sub>	Cl	
Ī	A-588	Cl	H	SCF <sub>3</sub>	CF <sub>3</sub>	Cl	
Ī	A-589	CH <sub>3</sub>	Н	SCF <sub>3</sub>	CF <sub>3</sub>	Cl	
	A-590	CH <sub>2</sub> CH <sub>3</sub>	H -	SCF <sub>3</sub>	CF <sub>3</sub>	Cl	
10	A-591	H	H	OCHF <sub>2</sub>	CF <sub>3</sub>	Cl	
Ī	A-592	F	H	OCHF <sub>2</sub>	CF <sub>3</sub>	Cl	
Ī	A-593	Cl	H	OCHF <sub>2</sub>	CF <sub>3</sub>	Cl	
ļ	A-594	CH <sub>3</sub>	H	OCHF <sub>2</sub>	CF <sub>3</sub>	Cl	
15	A-595	CH <sub>2</sub> CH <sub>3</sub>	Ħ	OCHF <sub>2</sub>	CF <sub>3</sub>	Cl	
	A-596	H	Н	OCF <sub>3</sub>	CF <sub>3</sub>	Cl	
	A-597	F	н	OCF <sub>3</sub>	CF <sub>3</sub>	Cl	
	A-598	Cl	H	OCF <sub>3</sub>	CF <sub>3</sub>	Cl	
20	A-599	CH3	H	OCF <sub>3</sub>	CF <sub>3</sub>	Cl	
	A-600	CH <sub>2</sub> CH <sub>3</sub>	H	OCF <sub>3</sub>	CF <sub>3</sub>	Cl	
	A-601	н	F	F	Ħ	H	
	A-602	F	F	F	H	H	
25	A-603	Cl	F	F	H	H	
23	A-604	CH <sub>3</sub>	F	F	H	H	
	A-605	CH <sub>2</sub> CH <sub>3</sub>	F	F	H	H	
	A-606	H	F	Cl	H	H	
	A-607	F	F	Cl	H	H	
30	A-608	Cl	F	Cl	Н	H	
	A-609	CH <sub>3</sub>	F	Cl	H	H	
	A-610	CH <sub>2</sub> CH <sub>3</sub>	F	Cl	H	H	
	A-611	н	F	CHF2	H	H	
35	A-612	F	F	CHF2	Н	H	
	A-613	Cl	F	CHF2	H	H	
	A-614	CH <sub>3</sub>	F	CHF2	H	H	
	A-615	CH <sub>2</sub> CH <sub>3</sub>	F	CHF2	H	H	
40	A-616	H	F	CF <sub>3</sub>	H	H	
	A-617	F	F	CF <sub>3</sub>	H	H	
	A-618	Cl	F	CF <sub>3</sub>	H	Ħ	
	A-619	CH <sub>3</sub>	F	CF <sub>3</sub>	H	H	
	A-620	CH <sub>2</sub> CH <sub>3</sub>	F	CF <sub>3</sub>	H	H	
45	A-621	н	F	SCHF <sub>2</sub>	Н	H	
	A-622	F	F	SCHF <sub>2</sub>	H	H	
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Г	No.	R <sup>1</sup>	R <sup>2</sup>	R11	R12	R <sup>13</sup>
L			F			н
L			F		H H	н
ŀ						H
- J			F		H	H
L	A-626	H	F	SCF <sub>3</sub>	H	
ı	A-627	F	F	SCF <sub>3</sub>	H .	H
L	A-628	Cl	F	SCF <sub>3</sub>	H	H
10 1	A-629	CH <sub>3</sub>	F	SCF <sub>3</sub>	H	H
- 1	A-630	CH <sub>2</sub> CH <sub>3</sub>	F	SCF <sub>3</sub>	Ħ	H
	A-631	Ħ	F	OCHF <sub>2</sub>	H	H
	A-632	F	F	OCHF <sub>2</sub>	H	H
	A-633	Cl	F	OCHF <sub>2</sub>	H	H
15	A-634	CH <sub>3</sub>	F	OCHF <sub>2</sub>	Ħ	H
	A-635	CH <sub>2</sub> CH <sub>3</sub>	F	OCHF <sub>2</sub>	H	H
	A-636	H	F	OCF <sub>3</sub>	H	H
	A-637	F	F	OCF <sub>3</sub>	H	H
20	A-638	Cl	F	OCF <sub>3</sub>	H	H
	A-639	CH <sub>3</sub>	F	OCF <sub>3</sub>	R	H
	A-640	CH <sub>2</sub> CH <sub>3</sub>	F	OCF <sub>3</sub>	H	H
	A-641	H	F	F	F	н
25	A-642	F	F	F	F	Ħ
23	A-643	Cl	F	F	F	H
	A-644	CH <sub>3</sub>	F	F	F	Ħ
	A-645	CH <sub>2</sub> CH <sub>3</sub>	F	P	F	H
	A-646	H	F	Cl	F	Ħ
30	A-647	F	F	Cl	F	H
	A-648	Cl	F	Cl	F	н
	A-649	CH <sub>3</sub>	F	Cl	F	H
	A-650	CH <sub>2</sub> CH <sub>3</sub>	F	Cl	F	H
35	A-651	н	F	CHF2	F	H
	A-652	F	F	CHF2	F	H
	A-653	Cl	F	CHF2	F	H
	A-654	CH <sub>3</sub>	F	CHF2	F	H
40	A-655	CH <sub>2</sub> CH <sub>3</sub>	F	CHF2	F	Н
40	A-656	H	F	CF <sub>3</sub>	F	Н
	A-657	F	F	CF <sub>3</sub>	F	Н
	A-658	cı	F	CF <sub>3</sub>	F	H
	A-659	CH <sub>3</sub>	F	CF <sub>3</sub>	F	H
45	A-660	CH <sub>2</sub> CH <sub>3</sub>	F	CF <sub>3</sub>	F	Ħ
	A-661	В	F	SCHF <sub>2</sub>	F	H
		<u> </u>				

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	36						
[i	No.	R1	R <sup>2</sup>	Rll	R <sup>12</sup>	R13	
1	A-662	F	F	SCHF <sub>2</sub>	F	H	
1	A-663	Cl	F	SCHF <sub>2</sub>	F	Ħ	
5	A-664	CH <sub>3</sub>	F	SCHF <sub>2</sub>	F	H	
~	A-665	CH <sub>2</sub> CH <sub>3</sub>	F	SCHF <sub>2</sub>	F	H	
T.	A-666	H	F	SCF <sub>3</sub>	F	H	
1	A-667	F	F	SCF <sub>3</sub>	F	H	
	A-668	Cl	F	SCF <sub>3</sub>	F	Ħ	
10	A-669	CH <sub>3</sub>	F	SCF <sub>3</sub>	F	H	
Ì	A-670	CH <sub>2</sub> CH <sub>3</sub>	F	SCF <sub>3</sub>	F	Ħ	
Ì	A-671	H	F	OCHF <sub>2</sub>	F	Ħ	
İ	A-672	F	F	OCHF <sub>2</sub>	F	日	
15	A-673	Cl	F	OCHF <sub>2</sub>	F	H	
	A-674	CH <sub>3</sub>	F	OCHF <sub>2</sub>	F	H	
	A-675	CH <sub>2</sub> CH <sub>3</sub>	F	OCHF <sub>2</sub>	F	H	
	A-676	H	F	OCF <sub>3</sub>	F	H	
20	A-677	F	F	OCF <sub>3</sub>	F	H	
	A-678	Cl	F	OCF3	F	H	
	A-679	CH <sub>3</sub>	F	OCF <sub>3</sub>	F	H	
	A-680	CH <sub>2</sub> CH <sub>3</sub>	F	OCF <sub>3</sub>	F	H	
25	A-681	H	F	F	Cl	H	
23	A-682	F	F	F	C1	Н	
	A-683	Cl	F	F	Cl	H	
	A-684	CH <sub>3</sub>	F	F	Cl	H	
	A-685	CH <sub>2</sub> CH <sub>3</sub>	F	F	Cl	H	
30	A-686	Н	F	C1	Cl	H	
	A-687	F	F	Cl	Cl	H	
	A-688	Cl	F	Cl	Cl	H	
	A-689	CH <sub>3</sub>	F	Cl	Cl	H	
35	A-690	CH <sub>2</sub> CH <sub>3</sub>	F	Cl	Cl	H	
	A-691	H	F	CHF2	Cl	H	
	A-692	F	F	CHF2	Cl	H	
	A-693	Cl	F	CHF2	C1	H	
40	A-694	СН3	F	CHF2	Cl	H	
	A-695	CH <sub>2</sub> CH <sub>3</sub>	F	CHF2	Cl	H	
	A-696	H	F	CF <sub>3</sub>	Cl	H	
	A-697	F	F	CF <sub>3</sub>	Cl	H	
45	A-698	Cl	F	CF <sub>3</sub>	Cl	H	
45	A-699	CH <sub>3</sub>	F	CF <sub>3</sub>	Cl	H	
	A-700	CH <sub>2</sub> CH <sub>3</sub>	F	CF <sub>3</sub>		H	

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Γ	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R12	R <sup>13</sup>
ľ	A-701	н	F	SCHF <sub>2</sub>	Cl	Н
	A-702	F	F	SCHF <sub>2</sub>	Cl	H
5	A-703	Cl	F	SCHF <sub>2</sub>	Cl	H
	A-704	CH <sub>3</sub>	F	SCHF <sub>2</sub>	Cl	H
Ì	A-705	CH <sub>2</sub> CH <sub>3</sub>	F	SCHF <sub>2</sub>	Cl	H
Ī	A-706	H	F	SCF <sub>3</sub>	Cl	H
	A-707	F	F	SCF <sub>3</sub>	Cl	H
10	A-708	Cl	F	SCF <sub>3</sub>	Cl	H
Ī	A-709	CH <sub>3</sub>	F	SCF <sub>3</sub>	Cl	H
	A-710	CH₂CH₃	F	SCF <sub>3</sub>	Cl	Ħ
	A-711	Н	F	OCHF <sub>2</sub>	Cl	H
15	A-712	F	F	OCHF <sub>2</sub>	Cl	H
	A-713	Cl	F	OCHF <sub>2</sub>	Cl	H
i	A-714	CH <sub>3</sub>	F	OCHF <sub>2</sub>	Cl	H
	A-715	CH <sub>2</sub> CH <sub>3</sub>	F	OCHF <sub>2</sub>	Cl	H
20	A-716	H	F	OCF <sub>3</sub>	C1	H
;	A-717	F	F	OCF <sub>3</sub>	Cl	Ħ
	A-718	Cl	F	OCF <sub>3</sub>	Cl	H
	A-719	CH <sub>3</sub>	F	OCF <sub>3</sub>	Cl	H
25	A-720	CH <sub>2</sub> CH <sub>3</sub>	F	OCF <sub>3</sub>	C1 ·	H
2.5	A-721	H	F	F	CHF <sub>2</sub>	H
	A-722	F	F	F	CHF <sub>2</sub>	H
	A-723	Cl	F	F	CHF <sub>2</sub>	H
	A-724	CH <sub>3</sub>	F	F	CHF <sub>2</sub>	H
30	A-725	CH <sub>2</sub> CH <sub>3</sub>	F	F	CHF <sub>2</sub>	H
	A-726	Ħ	F	Cl	CHF <sub>2</sub>	H
	A-727	F	F	Cl	CHF <sub>2</sub>	H
	A-728	Cl	F	Cl	CHF <sub>2</sub>	H
35	A-729	CH <sub>3</sub>	F	Cl	CHF <sub>2</sub>	H
	A-730	CH <sub>2</sub> CH <sub>3</sub>	F	Cl	CHF <sub>2</sub>	Н
	A-731	H	F	CHF2	CHF <sub>2</sub>	Н
	A-732	F	F	CHF2	CHF <sub>2</sub>	н
40	A-733	Cl	F	CHF2	CHF <sub>2</sub>	Н
•	A-734	CH <sub>3</sub>	F	CHF2	CHF <sub>2</sub>	H
	A-735	CH <sub>2</sub> CH <sub>3</sub>	F	CHF2	CHF <sub>2</sub>	H
	A-736	H	F	CF <sub>3</sub>	CHF <sub>2</sub>	H
AE	A-737	F	F	CF <sub>3</sub>	CHF <sub>2</sub>	H
45	A-738	Cl	F	CF <sub>3</sub>	CHF <sub>2</sub>	H
	A-739	CH <sub>3</sub>	F	CF <sub>3</sub>	CHF <sub>2</sub>	Ħ





Г	No.	$R^1$	R <sup>2</sup>	R <sup>11</sup>	R12	R13	٦
1	A-740	CH <sub>2</sub> CH <sub>3</sub>	F	CF <sub>3</sub>	CHF <sub>2</sub>	н	7
L.	A-741	H	F	SCHF <sub>2</sub>	CHF <sub>2</sub>	H	
ŀ	A-742	F	F	SCHF <sub>2</sub>	CHF <sub>2</sub>	Н	7
- P [	A-743	Cl	F	SCHF <sub>2</sub>	CHF <sub>2</sub>	H	7
L	A-744	CH <sub>3</sub>	F	SCHF2	CHF <sub>2</sub>	Н	7
ł	A-745	CH <sub>2</sub> CH <sub>3</sub>	F	SCHF <sub>2</sub>	CHF <sub>2</sub>	H	7
1	A-746	H	F	SCF <sub>3</sub>	CHF <sub>2</sub>	H	7
10	A-747	F	F	SCF <sub>3</sub>	CHF <sub>2</sub>	H	7
L	A-748	Cl	F	SCF <sub>3</sub>	CHF <sub>2</sub>	H	
	A-749	CH <sub>3</sub>	F	SCF <sub>3</sub>	CHF <sub>2</sub>	Н	
	A-750	CH <sub>2</sub> CH <sub>3</sub>	F	SCF <sub>3</sub>	CHF <sub>2</sub>	н	
15	A-751	H	F	OCHF <sub>2</sub>	CHF <sub>2</sub>	H	
	A-752	F	F	OCHF <sub>2</sub>	CHF <sub>2</sub>	H	
	A-753	Cl	F	OCHF <sub>2</sub>	CHF <sub>2</sub>	H	
	A-754	CH <sub>3</sub>	F	OCHF <sub>2</sub>	CHF <sub>2</sub>	H	
20	A-755	CH <sub>2</sub> CH <sub>3</sub>	F	OCHF2	CHF <sub>2</sub>	Ħ	
20	A-756	н	F	OCF <sub>3</sub>	CHF <sub>2</sub>	Н	
	A-757	F	F	OCF <sub>3</sub>	CHF <sub>2</sub>	H	_
	A-758	Cl	F	OCF <sub>3</sub>	CHF <sub>2</sub>	H	
	A-759	CH <sub>3</sub>	F	OCF <sub>3</sub>	CHF <sub>2</sub>	Н	_
25	A-760	CH <sub>2</sub> CH <sub>3</sub>	F	OCF <sub>3</sub>	CHF <sub>2</sub>	Н	_
	A-761	H	F	F	CF <sub>3</sub>	H	_
	A-762	F	F	F	CF <sub>3</sub>	H	_
	A-763	Cl	F	F	CF <sub>3</sub>	H	
30	A-764	CH <sub>3</sub>	F	F	CF <sub>3</sub>	H	
	A-765	CH <sub>2</sub> CH <sub>3</sub>	F	F	CF <sub>3</sub>	H	
	A-766	H	F	Cl	CF <sub>3</sub>	H	_
	A-767	F	F	Cl	CF <sub>3</sub>	H	
35	A-768	Cl	F	Cl	CF <sub>3</sub>	H	
	A-769	CH <sub>3</sub>	F	Cl	CF <sub>3</sub>	H	$-\!\!\!-\!\!\!\!-\!\!\!\!-$
	A-770	CH <sub>2</sub> CH <sub>3</sub>	F	Cl	CF <sub>3</sub>	H H	
	A-771	н	F	CHF2	CF <sub>3</sub>	H	
40	A-772	F	F	CHF2	CF <sub>3</sub>	H	
	A-773	Cl	F	CHF2	CF <sub>3</sub>	H	
	A-774	CH <sub>3</sub>	F	CHF2	CF <sub>3</sub>	H	
	A-775	CH <sub>2</sub> CH <sub>3</sub>	F	CHF2	CF <sub>3</sub>	H	
	A-776	н	F	CF <sub>3</sub>	CF <sub>3</sub>	H	
4	A-777	F	F	CF <sub>3</sub>	CF <sub>3</sub>	H	
	A-778	Cl	F	CF <sub>3</sub>	CF <sub>3</sub>	н	



No.   R <sup>1</sup>   R <sup>2</sup>   R <sup>11</sup>   R <sup>12</sup>   R <sup>13</sup>     A-779	_					_12	
A-780   CH2CH3   F   CF3   CF3   H	L					R <sup>12</sup>	R <sup>13</sup>
A-781	L	A-779					
A-782   F	L	A-780	CH <sub>2</sub> CH <sub>3</sub>	F			
A-783	5	A-781					
A-784	1	A-782	F	F	SCHF <sub>2</sub>		H
A-785   CH <sub>2</sub> CH <sub>3</sub>   F   SCHF <sub>2</sub>   CF <sub>3</sub>   H     A-786   H   F   SCF <sub>3</sub>   CF <sub>3</sub>   H     A-787   F   F   SCF <sub>3</sub>   CF <sub>3</sub>   H     A-788   C1   F   SCF <sub>3</sub>   CF <sub>3</sub>   H     A-789   CH <sub>3</sub>   F   SCF <sub>3</sub>   CF <sub>3</sub>   H     A-789   CH <sub>3</sub>   F   SCF <sub>3</sub>   CF <sub>3</sub>   H     A-790   CH <sub>2</sub> CH <sub>3</sub>   F   SCF <sub>3</sub>   CF <sub>3</sub>   H     A-791   H   F   OCHF <sub>2</sub>   CF <sub>3</sub>   H     A-792   F   F   OCHF <sub>2</sub>   CF <sub>3</sub>   H     A-793   C1   F   OCHF <sub>2</sub>   CF <sub>3</sub>   H     A-794   CH <sub>3</sub>   F   OCHF <sub>2</sub>   CF <sub>3</sub>   H     A-795   CH <sub>2</sub> CH <sub>3</sub>   F   OCHF <sub>2</sub>   CF <sub>3</sub>   H     A-796   H   F   OCF <sub>3</sub>   CF <sub>3</sub>   H     A-797   F   F   OCF <sub>3</sub>   CF <sub>3</sub>   H     A-798   C1   F   OCF <sub>3</sub>   CF <sub>3</sub>   H     A-799   CH <sub>3</sub>   F   OCF <sub>3</sub>   CF <sub>3</sub>   H     A-801   H   F   F   F   H     A-802   F   F   F   H     A-804   CH <sub>3</sub>   F   F   F   H     A-805   CH <sub>2</sub> CH <sub>3</sub>   F   F   H     A-806   H   F   C1   H   F     A-806   C1   F   C1   H   F     A-807   CH <sub>3</sub>   F   C1   H   F     A-808   C1   F   C1   H   F     A-809   CH <sub>3</sub>   F   C1   H   F     A-811   H   F   CHF <sub>2</sub>   H   F     A-813   C1   F   CHF <sub>2</sub>   H   F     A-814   CH <sub>3</sub>   F   CHF <sub>2</sub>   H   F     A-815   CH <sub>2</sub> CH <sub>3</sub>   F   CHF <sub>2</sub>   H   F     A-816   H   F   CHF <sub>2</sub>   H   F     A-816   H   F   CHF <sub>2</sub>   H   F     A-816   H   F   CHF <sub>2</sub>   H   F     A-816   H   F   CHF <sub>2</sub>   H   F     A-816   H   F   CHF <sub>2</sub>   H   F     A-816   H   F   CHF <sub>2</sub>   H   F     A-816   H   F   CHF <sub>2</sub>   H   F     A-816   H   F   CHF <sub>2</sub>   H   F     A-816   H   F   CHF <sub>2</sub>   H   F     A-816   H   F   CHF <sub>2</sub>   H   F     A-816   H   F   CHF <sub>2</sub>   H   F     A-816   H   F   CHF <sub>2</sub>   H   F     A-816   H   F   CHF <sub>2</sub>   H   F     A-816   H   F   CHF <sub>2</sub>   H   F     A-816   H   F   CHF <sub>2</sub>   H   F     A-816   H   F   CHF <sub>2</sub>   H   F     A-816   H   F   CHF <sub>2</sub>   H   F     A-816   H   F   CHF <sub>2</sub>   H   F     A-816   H   F   CHF <sub>2</sub>   H   F     A-816   H   F   CHF <sub>2</sub>   H   F     A-816   H   F   CHF <sub>2</sub>   H   F     A-816   H   F   CHF <sub>2</sub>   H   F     A-816   H   F   CHF <sub>2</sub>   H   F     A-816   H   F   CHF <sub>2</sub>   H   F     A-816   H   F   CHF <sub>2</sub>   H   F     A-816   H   F   CHF <sub>2</sub>   H   F     A-816   H   F		A-783	Cl	F			
A-786	[	A-784	CH3	F	SCHF <sub>2</sub>	CF <sub>3</sub>	H
A-786	,,	A-785	CH <sub>2</sub> CH <sub>3</sub>	F	SCHF <sub>2</sub>	CF <sub>3</sub>	H
A-788 C1 F SCF <sub>3</sub> CF <sub>3</sub> H A-789 CH <sub>3</sub> F SCF <sub>3</sub> CF <sub>3</sub> H A-790 CH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> CF <sub>3</sub> H A-791 H F F OCHF <sub>2</sub> CF <sub>3</sub> H A-792 F F OCHF <sub>2</sub> CF <sub>3</sub> H A-793 C1 F OCHF <sub>2</sub> CF <sub>3</sub> H A-794 CH <sub>3</sub> F OCHF <sub>2</sub> CF <sub>3</sub> H A-795 CH <sub>2</sub> CH <sub>3</sub> F OCHF <sub>2</sub> CF <sub>3</sub> H A-796 H F OCHF <sub>2</sub> CF <sub>3</sub> H A-797 F F F OCH <sub>2</sub> CF <sub>3</sub> H A-797 F F F OCF <sub>3</sub> CF <sub>3</sub> H A-799 CH <sub>3</sub> F OCHF <sub>2</sub> CF <sub>3</sub> H A-799 CH <sub>3</sub> F OCF <sub>3</sub> CF <sub>3</sub> H A-799 CH <sub>3</sub> F OCF <sub>3</sub> CF <sub>3</sub> H A-800 CH <sub>2</sub> CH <sub>3</sub> F OCF <sub>3</sub> CF <sub>3</sub> H A-801 H F F F H F F A-802 F F F F H F F A-804 CH <sub>3</sub> F F F H F F A-805 CH <sub>2</sub> CH <sub>3</sub> F F C1 H F F A-806 H F F C1 H F F A-807 F F F C1 H F F A-808 C1 F F F F H F F A-808 C1 F F F F H F F A-809 CH <sub>3</sub> F C1 H F F F H F F A-809 CH <sub>3</sub> F C1 H F F F H F F A-809 CH <sub>3</sub> F F C1 H F F A-811 H F F C1 H F F A-812 F F C1 H F F A-813 C1 F CHF2 H F F A-814 CH <sub>3</sub> F CHF2 H F F A-815 CH <sub>2</sub> CH <sub>3</sub> F CHF2 H F F A-816 H F F CHF2 H F F A-816 H F F CHF2 H F F	10	A-786	H	F	SCF <sub>3</sub>	CF <sub>3</sub>	H
A-789		A-787	F	F	SCF <sub>3</sub>	CF <sub>3</sub>	H .
A-789	Ì	A-788	Cl		SCF <sub>3</sub>	CF <sub>3</sub>	H
A-791		A-789	CH <sub>3</sub>	F	SCF <sub>3</sub>	CF <sub>3</sub>	H
A-792 F F F OCHF2 CF3 H A-793 C1 F OCHF2 CF3 H A-794 CH3 F OCHF2 CF3 H A-795 CH2CH3 F OCHF2 CF3 H A-796 H F OCF3 CF3 H A-797 F F OCF3 CF3 H A-797 F F OCF3 CF3 H A-799 CH3 F OCF3 CF3 H A-800 CH2CH3 F OCF3 CF3 H A-801 H F F F H F F A-802 F F F F H F F A-804 CH3 F F F H F F A-806 H F C1 F F H F F A-806 H F F C1 H F F A-806 H F F C1 H F F A-807 F F C1 H F F A-808 C1 F C1 H F F A-809 CH3 F C1 H F F A-811 H F F C1 H F F A-812 F F C1 H F F A-811 CH3CH3 F C1 H F F A-813 C1 F C1 H F F A-814 CH3 F C1 H F F A-815 CH2CH3 F C1 H F F A-816 H F C1 H F F A-816 H F F C1 H F F A-816 H F F C1 H F F A-816 H F F C1 H F F A-815 CH2CH3 F C1 H F F A-816 H F F C1 H F F A-816 H F F C1 H F F A-816 H F F C1 H F F A-816 H F F C1 H F F A-816 H F F C1 H F F A-816 H F F C1 H F F A-816 H F F C1 H F F A-816 H F F C1 H F F A-816 H F F C1 H F F A-816 H F C1 H F F A-816 H F F C1 H F A-816 H F F C1 H F A-816 H F F C1 H F A-816 H F F C1 H F A-816 H F F C1 H F A-816 H F F C1 H F A-816 H F F C1 H F A-816 H F F C1 H F A-816 H F F C1 H F A-816 H F F C1 H F A-816 H F F C1 H F A-816 H F	15	A-790	CH <sub>2</sub> CH <sub>3</sub>	F	SCF <sub>3</sub>		H
20       A-793       C1       F       OCHF2       CF3       H         A-794       CH3       F       OCHF2       CF3       H         A-795       CH2CH3       F       OCHF2       CF3       H         A-796       H       F       OCF3       CF3       H         A-797       F       F       OCF3       CF3       H         A-798       C1       F       OCF3       CF3       H         A-799       CH3       F       OCF3       CF3       H         A-800       CH2CH3       F       OCF3       CF3       H         A-801       H       F       F       H       F         A-802       F       F       F       H       F         A-803       C1       F       F       H       F         A-804       CH3       F       F       H       F         A-805       CH2CH3       F       F       H       F         A-806       H       F       C1       H       F         A-807       F       F       C1       H       F         A-808       C1       F       <		A-791	Ħ	F	OCHF <sub>2</sub>	CF <sub>3</sub>	Н
20		A-792	F	F	OCHF <sub>2</sub>	CF <sub>3</sub>	H
A-795 CH <sub>2</sub> CH <sub>3</sub> F OCHF <sub>2</sub> CF <sub>3</sub> H A-796 H F OCF <sub>3</sub> CF <sub>3</sub> H A-797 F F OCF <sub>3</sub> CF <sub>3</sub> H A-798 Cl F OCF <sub>3</sub> CF <sub>3</sub> H A-799 CH <sub>3</sub> F OCF <sub>3</sub> CF <sub>3</sub> H A-800 CH <sub>2</sub> CH <sub>3</sub> F OCF <sub>3</sub> CF <sub>3</sub> H A-801 H F F H F A-802 F F F H F A-803 Cl F F H F A-804 CH <sub>3</sub> F F H F A-805 CH <sub>2</sub> CH <sub>3</sub> F Cl H F A-806 H F Cl H F A-807 F F F Cl H F A-808 Cl F Cl H F A-809 CH <sub>3</sub> F Cl H F A-810 CH <sub>2</sub> CH <sub>3</sub> F Cl H F A-811 H F F A-811 H F CHF2 H F A-812 F CH <sub>2</sub> CH <sub>3</sub> F Cl H F A-811 CH <sub>2</sub> CH <sub>3</sub> F Cl H F A-812 F CH <sub>2</sub> CH <sub>3</sub> F Cl H F A-813 Cl F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>2</sub> H F A-814 CH <sub>3</sub> F CH <sub>2</sub> CH <sub>2</sub> H F A-815 CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>2</sub> H F A-815 CH <sub>2</sub> CH <sub>3</sub> F CHF2 H F A-815 CH <sub>2</sub> CH <sub>3</sub> F CHF2 H F		A-793	Cl	F	OCHF <sub>2</sub>	CF <sub>3</sub>	H
A-796 H F OCF3 CF3 H A-797 F F F OCF3 CF3 H A-798 C1 F OCF3 CF3 H A-799 CH3 F OCF3 CF3 H A-800 CH2CH3 F OCF3 CF3 H A-801 H F F H F A-802 F F F H F A-803 C1 F F H F A-805 CH2CH3 F C1 H F A-806 H F C1 H F A-806 H F C1 H F A-807 F F C1 H F A-808 C1 F F C1 H F A-809 CH3 F C1 H F A-809 CH3 F C1 H F A-811 H F C1 H F A-811 H F C1 H F A-812 F C1 H F A-811 CH2CH3 F C1 H F A-812 F C1 H F A-813 C1 F CH2CH3 F CH2CH3 H F A-814 CH3 F CH2CH3 F CH2CH4 H F A-815 CH2CH3 F CH2CH4 H F A-816 H F CH7C H F A-816 CH2CH3 F CH7C H F A-817 CH2CH3 F CH7C H F A-818 C1 F CH7C H F A-819 CH3 F CH7C H F A-810 CH2CH3 F CH7C H F A-811 CH3CH3 F CH7C H F A-811 CH3CH3CH3 H3CH3CH3CH3CH3CH3CH3CH3CH3CH3C	20	A-794	CH <sub>3</sub>	F	OCHF <sub>2</sub>	CF <sub>3</sub>	H
A-797 F F OCF3 CF3 H A-798 C1 F OCF3 CF3 H A-799 CH3 F OCF3 CF3 H A-800 CH2CH3 F OCF3 CF3 H A-801 H F F H F H F A-802 F F F F H F F H F A-804 CH3 F F C1 H F A-805 CH2CH3 F C1 H F A-806 H F C1 H F A-808 C1 F F F F F F F F F F F F F F F F F F		A-795	CH <sub>2</sub> CH <sub>3</sub>	F	OCHF <sub>2</sub>	CF <sub>3</sub>	H
25 A-798 C1 F OCF <sub>3</sub> CF <sub>3</sub> H A-799 CH <sub>3</sub> F OCF <sub>3</sub> CF <sub>3</sub> H A-800 CH <sub>2</sub> CH <sub>3</sub> F OCF <sub>3</sub> CF <sub>3</sub> H A-801 H F F F H F A-802 F F F F H F A-803 C1 F F F H F A-804 CH <sub>3</sub> F F F H F A-805 CH <sub>2</sub> CH <sub>3</sub> F C1 H F A-806 H F C1 H F A-808 C1 F C1 H F A-809 CH <sub>3</sub> F C1 H F A-811 H F CHF2 H F A-813 C1 F CH <sub>2</sub> CH <sub>3</sub> F CHF2 H F A-814 CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F F CHF2 H F A-815 CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>4</sub>		A-796	H	F	OCF <sub>3</sub>	CF <sub>3</sub>	H
A-799		A-797	F	F	OCF <sub>3</sub>		<del> </del>
A-799	25	A-798	Cl	F	OCF <sub>3</sub>	CF <sub>3</sub>	
A-801 H F F F H F F A-802 F F F F H F H F H F F H		A-799	CH <sub>3</sub>	F	OCF <sub>3</sub>		
A-802 F F F F H F  A-803 C1 F F F H F  A-804 CH <sub>3</sub> F F F H F  A-805 CH <sub>2</sub> CH <sub>3</sub> F F H F  A-806 H F C1 H F  A-808 C1 F C1 H F  A-809 CH <sub>3</sub> F C1 H F  A-810 CH <sub>2</sub> CH <sub>3</sub> F C1 H F  A-811 H F CHF2 H F  A-813 C1 F CH <sub>2</sub> CH <sub>3</sub> F CHF2 H F  A-814 CH <sub>3</sub> F CH <sub>2</sub> CH <sub>3</sub> F CHF2 H F  A-815 CH <sub>2</sub> CH <sub>3</sub> F CHF2 H F  A-816 H F CF <sub>3</sub> H F		A-800	CH₂CH₃	F	OCF <sub>3</sub>	CF <sub>3</sub>	
A-803 C1 F F F H F F A-804 CH <sub>3</sub> F F F H F F H F F A-805 CH <sub>2</sub> CH <sub>3</sub> F F F H F F H F F F F H F F F F H F F F F H F		A-801	Ħ	F		н	<del></del>
A-804		A-802	F	F	F	H	
A-805 CH <sub>2</sub> CH <sub>3</sub> F F H F A-806 H F Cl H F A-807 F F Cl H F A-808 Cl F Cl H F A-809 CH <sub>3</sub> F Cl H F A-810 CH <sub>2</sub> CH <sub>3</sub> F Cl H F A-811 H F CHF2 H F A-813 Cl F CHF2 H F A-814 CH <sub>3</sub> F CHF2 H F A-815 CH <sub>2</sub> CH <sub>3</sub> F CHF2 H F A-816 H F CF <sub>3</sub> H F	30	A-803	Cl	F	F		
A-806 H F C1 H F  A-807 F F F C1 H F  A-808 C1 F C1 H F  A-809 CH <sub>3</sub> F C1 H F  A-810 CH <sub>2</sub> CH <sub>3</sub> F C1 H F  A-811 H F CHF2 H F  A-812 F F CHF2 H F  A-813 C1 F CHF2 H F  A-814 CH <sub>3</sub> F CHF2 H F  A-815 CH <sub>2</sub> CH <sub>3</sub> F CHF2 H F  A-816 H F CHF2 H F		A-804	CH <sub>3</sub>	F	F		
35 A-807 F F F C1 H F A-808 C1 F C1 H F A-809 CH <sub>3</sub> F C1 H F A-810 CH <sub>2</sub> CH <sub>3</sub> F C1 H F A-811 H F CHF2 H F A-812 F F CHF2 H F A-813 C1 F CHF2 H F A-814 CH <sub>3</sub> F CHF2 H F A-815 CH <sub>2</sub> CH <sub>3</sub> F CHF2 H F A-816 H F CHF2 H F		A-805	CH <sub>2</sub> CH <sub>3</sub>	F			
A-808 C1 F C1 H F  A-809 CH <sub>3</sub> F C1 H F  A-810 CH <sub>2</sub> CH <sub>3</sub> F C1 H F  A-811 H F CHF2 H F  A-812 F F CHF2 H F  A-813 C1 F CHF2 H F  A-814 CH <sub>3</sub> F CHF2 H F  A-815 CH <sub>2</sub> CH <sub>3</sub> F CHF2 H F  A-816 H F CF <sub>3</sub> H F	÷	A-806	H	F		<u> </u>	
A-809 CH <sub>3</sub> F Cl H F A-810 CH <sub>2</sub> CH <sub>3</sub> F Cl H F A-811 H F CHF2 H F A-812 F F CHF2 H F A-813 Cl F CHF2 H F A-814 CH <sub>3</sub> F CHF2 H F A-815 CH <sub>2</sub> CH <sub>3</sub> F CHF2 H F A-816 H F CF <sub>3</sub> H F	35	A-807					
A-810 CH <sub>2</sub> CH <sub>3</sub> F Cl H F A-811 H F CHF2 H F A-812 F F CHF2 H F A-813 Cl F CHF2 H F A-814 CH <sub>3</sub> F CHF2 H F A-815 CH <sub>2</sub> CH <sub>3</sub> F CHF2 H F A-816 H F CF <sub>3</sub> H F		A-808	Cl	F		<u> </u>	
A-811 H F CHF2 H F A-812 F F CHF2 H F A-813 C1 F CHF2 H F A-814 CH <sub>3</sub> F CHF2 H F A-815 CH <sub>2</sub> CH <sub>3</sub> F CHF2 H F A-816 H F CF <sub>3</sub> H F		A-809	CH <sub>3</sub>	F		H	
46 A-812 F F F CHF2 H F A-813 Cl F CHF2 H F A-814 CH <sub>3</sub> F CHF2 H F A-815 CH <sub>2</sub> CH <sub>3</sub> F CHF2 H F A-816 H F CF <sub>3</sub> H F		A-810	CH <sub>2</sub> CH <sub>3</sub>	F			
A-813 C1 F CHF2 H F  A-814 CH <sub>3</sub> F CHF2 H F  A-815 CH <sub>2</sub> CH <sub>3</sub> F CHF2 H F  A-816 H F CF <sub>3</sub> H F	40	A-811	H	F		H	
A-814 CH <sub>3</sub> F CHF2 H F A-815 CH <sub>2</sub> CH <sub>3</sub> F CHF2 H F A-816 H F CF <sub>3</sub> H F	٠	A-812	F	F		H	
A-815 CH <sub>2</sub> CH <sub>3</sub> F CHF2 H F A-816 H F CF <sub>3</sub> H F		A-813	Cl				
45 A-816 H F CF <sub>3</sub> H F		A-814	CH <sub>3</sub>				
A-816 H F CF3 H	ΛE	A-815	CH <sub>2</sub> CH <sub>3</sub>	F			
A-817 F   CF <sub>3</sub>   H   F	43	A-816	H	F			
		A-817	F	F	CF <sub>3</sub>	Н	F





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[	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R <sup>12</sup>	R <sup>13</sup>		
	A-818	Cl	F	CF <sub>3</sub>	Ħ	F		
	A-819	CH <sub>3</sub>	F	CF <sub>3</sub>	H	F		
5	A-820	CH <sub>2</sub> CH <sub>3</sub>	F	CF <sub>3</sub>	H	F		
	A-821	H	F	SCHF <sub>2</sub>	H	F		
f	A-822	F	F	SCHF <sub>2</sub>	H	F		
Ì	A-823	Cl	F	SCHF <sub>2</sub>	H	F		
	A-824	CH <sub>3</sub>	F	SCHF <sub>2</sub>	H	F		
10	A-825	CH₂CH3	F	SCHF <sub>2</sub>	H	F		
İ	A-826	H	F	SCF <sub>3</sub>	H	F		
Ì	A-827	F	F	SCF <sub>3</sub>	H	F		
	A-828	Cl	F	SCF <sub>3</sub>	H	F		
15	A-829	CH <sub>3</sub>	F	SCF <sub>3</sub>	н	F		
	A-830	CH <sub>2</sub> CH <sub>3</sub>	F	SCF <sub>3</sub>	H	F		
	A-831	H	F	OCHF <sub>2</sub>	н	F		
	A-832	F	F	OCHF <sub>2</sub>	H	F		
20	A-833	Cl	F	OCHF <sub>2</sub>	H	F		
	A-834	CH <sub>3</sub>	F	OCHF <sub>2</sub>	H	F		
	A-835	CH <sub>2</sub> CH <sub>3</sub>	F	OCHF <sub>2</sub>	H	F		
•	A-836	H	F	OCF <sub>3</sub>	H	F		
25	A-837	F	F	OCF <sub>3</sub>	H	F		
23	A-838	Cl	F	OCF <sub>3</sub>	В	F		
	A-839	CH <sub>3</sub>	F	OCF <sub>3</sub>	H	F		
	A-840	CH <sub>2</sub> CH <sub>3</sub>	F	OCF <sub>3</sub>	H	F		
	A-841	н	F	F	F	F		
30	A-842	F	F	F	F	F		
	A-843	Cl	F	F	F	F		
	A-844	CH <sub>3</sub>	F	F	F	F		
	A-845	CH <sub>2</sub> CH <sub>3</sub>	F	F	F	F		
35	A-846	H	F	Cl	F	F		
	A-847	F .	F	Cl	F	F		
	A-848	Cl	F	Cl	F	F		
	A-849	CH <sub>3</sub>	F	Cl	F	F		
40	A-850	CH <sub>2</sub> CH <sub>3</sub>	F	Cl	F	F		
	A-851	H	F	CHF2	F	F		
	A-852	F	F	CHF2	F	F		
	A-853	Cl	F	CHF2	F	F		
45	A-854	CH <sub>3</sub>	F	CHF2	F	P		
45	A-855	CH <sub>2</sub> CH <sub>3</sub>	F	CHF2	F	F		
	A-856	H	F	CF <sub>3</sub>	F	F		

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	No.	R1	R <sup>2</sup>	R <sup>11</sup>	R <sup>12</sup>	R <sup>13</sup>
	A-857	F	F	CF <sub>3</sub>	F	F
Ī	A-858	Cl	F	CF <sub>3</sub>	F	F
5	A-859	CH <sub>3</sub>	F	CF <sub>3</sub>	F	F
Ĭ	A-860	CH <sub>2</sub> CH <sub>3</sub>	F	CF <sub>3</sub>	F	F
Ī	A-861	H	F	SCHF <sub>2</sub>	F	F
İ	A-862	F	F	SCHF <sub>2</sub>	F	F
	A-863	Cl	F	SCHF <sub>2</sub>	F	F
10	A-864	CH₃	F	SCHF <sub>2</sub>	F	F
	A-865	CH <sub>2</sub> CH <sub>3</sub>	F	SCHF <sub>2</sub>	F	F
	A-866	H	F	SCF <sub>3</sub>	F	F
	A-867	P	F	SCF <sub>3</sub>	F	F
15	A-868	Cl	F	SCF <sub>3</sub>	F	F
	A-869	CH <sub>3</sub>	F	SCF <sub>3</sub>	F	F
	A-870	СH <sub>2</sub> CH <sub>3</sub>	F	SCF <sub>3</sub>	F	F
	A-871	H	F	OCHF <sub>2</sub>	F	F
20	A-872	F	F	OCHF <sub>2</sub>	F	F
	A-873	C1	F	OCHF <sub>2</sub>	F	F
	A-874	CH <sub>3</sub>	F	OCHF <sub>2</sub>	F	F
	A-875	CH <sub>2</sub> CH <sub>3</sub>	F	OCHF <sub>2</sub>	F	F
25	A-876	Н	F	OCF <sub>3</sub>	F	F
23	A-877	F	F	OCF <sub>3</sub>	F	F
	A-878	Cl	F	OCF <sub>3</sub>	F	F
	A-879	CH <sub>3</sub>	F	OCF <sub>3</sub>	F	F
•	A-880	CH <sub>2</sub> CH <sub>3</sub>	F	OCF <sub>3</sub>	F	F
30	A-881	H	F	F	Cl	F
	A-882	F	F	F	Cl	F
	A-883	Cl	F	F	Cl	F
	A-884	CH <sub>3</sub>	F	F	Cl	F
35	A-885	CH <sub>2</sub> CH <sub>3</sub>	F	F	Cl	F
	A-886	H	F	Cl	Cl	F
	A-887	F	F	Cl	Cl	F
	A-888	Cl	F	Cl	Cl	F
40	A-889	CH <sub>3</sub>	F	Cl	Cl	F
	A-890	CH <sub>2</sub> CH <sub>3</sub>	F	Cl	Cl	F
	A-891	H	F	CHF2	Cl	F
	A-892	F	F	CHF2	cl	F
	A-893	Cl	F	CHF2	Cl	F
45	A-894	CH <sub>3</sub>	F	CHF2	Cl	F
	A-895	CH <sub>2</sub> CH <sub>3</sub>	F	CHF2	C1	F
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Ţ	No.	R <sup>1</sup>	R <sup>2</sup>	R11	R <sup>12</sup>	R <sup>13</sup> .	
Ī	A-896	H	F	CF <sub>3</sub>	Cl	F	
İ	A-897	F	F	CF <sub>3</sub>	Cl	F	
5	A-898	Cl	F	CF <sub>3</sub>	Cl	F	
_	A-899	CH <sub>3</sub>	F	CF <sub>3</sub>	Cl	F	
	A-900	CH <sub>2</sub> CH <sub>3</sub>	F	CF <sub>3</sub>	Cl	F	
Ī	A-901	H	F	SCHF <sub>2</sub>	Cl	F	
	A-902	F	F	SCHF <sub>2</sub>	Cl	F	
10	A-903	Cl	F	SCHF <sub>2</sub>	Cl	F	
	A-904	CH <sub>3</sub>	F	SCHF <sub>2</sub>	Cl	F	
	A-905	CH <sub>2</sub> CH <sub>3</sub>	F	SCHF <sub>2</sub>	Cl	F	
	A-906	H	F	SCF <sub>3</sub>	Cl	F	
15	A-907	F	F	SCF <sub>3</sub>	Cl	F	
	A-908	Cl	F	SCF <sub>3</sub>	Cl	F	
	A-909	CH <sub>3</sub>	F	SCF <sub>3</sub>	Cl	F	
	A-910	CH <sub>2</sub> CH <sub>3</sub>	F	SCF <sub>3</sub>	Cl	F	
20	A-911	H	F	OCHF <sub>2</sub>	Cl	F	
	A-912	F	F	OCHF <sub>2</sub>	Cl	F	
	A-913	Cl	F	OCHF <sub>2</sub>	C1	F	
	A-914	CH3	F	OCHF <sub>2</sub>	Cl	F	
25	A-915	CH <sub>2</sub> CH <sub>3</sub>	F	OCHF <sub>2</sub>	Cl	F	
	A-916	H	F	OCF <sub>3</sub>	Cl	F	
	A-917	F	F	OCF <sub>3</sub>	Cl	F	
	A-918	Cl	F	OCF <sub>3</sub>	Cl	F	
	A-919	CH <sub>3</sub>	F	OCF <sub>3</sub>	Cl	F	
30	A-920	CH <sub>2</sub> CH <sub>3</sub>	F	OCF <sub>3</sub>	Cl	F	
	A-921	Н	F	F	CHF <sub>2</sub>	F	
	A-922	F	F	F	CHF <sub>2</sub>	F	
	A-923	Cl	F	F	CHF <sub>2</sub>	F	
35	A-924	CH <sub>3</sub>	F	F	CHF <sub>2</sub>	F	
	A-925	CH <sub>2</sub> CH <sub>3</sub>	F	F	CHF <sub>2</sub>	F	
	A-926	Н	F	Cl	CHF <sub>2</sub>	F	
	A-927	F	F	Cl	CHF <sub>2</sub>	F	
40		Cl	F	Cl	CHF <sub>2</sub>	F	
	A-929	CH <sub>3</sub>	F	Cl	CHF <sub>2</sub>	F	
	A-930	CH <sub>2</sub> CH <sub>3</sub>	F	Cl	CHF <sub>2</sub>	F	
	A-931	H	F	CHF2	CHF <sub>2</sub>	F .	
45	A-932	F	F	CHF2	CHF <sub>2</sub>	F	
-10	A-933	Cl	F	CHF2	CHF <sub>2</sub>	F	
	A-934	CH <sub>3</sub>	F	CHF2	CHF <sub>2</sub>	F	

ſ	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R12	R <sup>13</sup>
	A-935	CH <sub>2</sub> CH <sub>3</sub>	F	CHF2	CHF <sub>2</sub>	F
Ī	A-936	H	F	CF <sub>3</sub>	CHF <sub>2</sub>	F
5	A-937	F	F	CF <sub>3</sub>	CHF <sub>2</sub>	F
	A-938	Cl	F.	CF <sub>3</sub>	CHF <sub>2</sub>	F
	A-939	CH <sub>3</sub>	F	CF <sub>3</sub>	CHF <sub>2</sub>	F
	A-940	CH <sub>2</sub> CH <sub>3</sub>	F	CF <sub>3</sub>	CHF <sub>2</sub>	F
	A-941	H	F	SCHF <sub>2</sub>	CHF <sub>2</sub>	F
10	A-942	F	F	SCHF <sub>2</sub>	CHF <sub>2</sub>	F
	A-943	Cl	F	SCHF <sub>2</sub>	CHF <sub>2</sub>	F
	A-944	CH <sub>3</sub>	F	SCHF <sub>2</sub>	CHF <sub>2</sub>	F
	A-945	CH <sub>2</sub> CH <sub>3</sub>	F	SCHF <sub>2</sub>	CHF <sub>2</sub>	F
15	A-946	H	F	SCF <sub>3</sub>	CHF <sub>2</sub>	F
	A-947	F	F	SCF <sub>3</sub>	CHF <sub>2</sub>	F
	A-948	Cl	F	SCF <sub>3</sub>	CHF <sub>2</sub>	F
	A-949	CH <sub>3</sub>	F	SCF <sub>3</sub>	CHF <sub>2</sub>	F
20	A-950	CH <sub>2</sub> CH <sub>3</sub>	F	SCF <sub>3</sub>	CHF <sub>2</sub>	F
	A-951	H	F	OCHF <sub>2</sub>	CHF <sub>2</sub>	F
	A-952	F	F	OCHF <sub>2</sub>	CHF <sub>2</sub>	F
	A-953	Cl	F	OCHF <sub>2</sub>	CHF <sub>2</sub>	F
25	A-954	CH <sub>3</sub>	F	OCHF <sub>2</sub>	CHF <sub>2</sub>	F
	A-955	CH <sub>2</sub> CH <sub>3</sub>	F	OCHF <sub>2</sub>	CHF <sub>2</sub>	F
	A-956	H	F	OCF <sub>3</sub>	CHF <sub>2</sub>	F
	A-957	F	F	OCF <sub>3</sub>	CHF <sub>2</sub>	F
	A-958	Cl	F	OCF <sub>3</sub>	CHF <sub>2</sub>	F
30	A-959	CH <sub>3</sub>	F	OCF <sub>3</sub>	CHF <sub>2</sub>	F
	A-960	CH <sub>2</sub> CH <sub>3</sub>	F	OCF <sub>3</sub>	CHF <sub>2</sub>	F
	A-961	H .	F	F	CF <sub>3</sub>	F
	A-962	F	F	F	CF <sub>3</sub>	F
35	A-963	Cl	F	F	CF <sub>3</sub>	F
	A-964	CH <sub>3</sub>	F	F	CF <sub>3</sub>	F
	A-965	CH <sub>2</sub> CH <sub>3</sub>	F	F	CF <sub>3</sub>	F
40	A-966	H	F	Cl	CF <sub>3</sub>	F
	A-967	F	F	Cl	CF <sub>3</sub>	F
	A-968	Cl	P	Cl	CF <sub>3</sub>	F
	A-969	CH <sub>3</sub>	F	Cl	CF <sub>3</sub>	F
	A-970	CH <sub>2</sub> CH <sub>3</sub>	F	Cl	CF <sub>3</sub>	F
45	A-971	H	F	CHF2	CF <sub>3</sub>	F
43	A-972	F	F	CHF2	CF <sub>3</sub>	F
	A-973	Cl	F	CHF2	CF <sub>3</sub>	F

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Γ	No.	$\mathbb{R}^1$	R <sup>2</sup>	R <sup>11</sup>	R12	R <sup>13</sup>	
t	A-974	CH <sub>3</sub>	F	CHF2	CF <sub>3</sub>	F	
Ļ	A-975	CH <sub>2</sub> CH <sub>3</sub>	F	CHF2	CF <sub>3</sub>	F	
	A-976	H	F	CF <sub>3</sub>	CF <sub>3</sub>	F	
- 1	A-977	F	F	CF <sub>3</sub>	CF <sub>3</sub>	F	
	A-978	Cl	F	CF <sub>3</sub>	CF <sub>3</sub>	F	
	A-979	CH3	F	CF <sub>3</sub>	CF <sub>3</sub>	F	
	A-980	CH <sub>2</sub> CH <sub>3</sub>	F	CF <sub>3</sub>	CF <sub>3</sub>	F	
10	A-981	н	F	SCHF <sub>2</sub>	CF <sub>3</sub>	F	
	A-982	F	F	SCHF <sub>2</sub>	CF <sub>3</sub>	F	
	A-983	Cl	F	SCHF <sub>2</sub>	CF <sub>3</sub>	F	
	A-984	CH <sub>3</sub>	F	SCHF <sub>2</sub>	CF <sub>3</sub>	F	
15	A-985	CH <sub>2</sub> CH <sub>3</sub>	F	SCHF <sub>2</sub>	CF <sub>3</sub>	F	
	A-986	н	F	SCF <sub>3</sub>	CF <sub>3</sub>	F	
	A-987	F	F	SCF <sub>3</sub>	CF <sub>3</sub>	F	
	A-988	Cl	F	SCF <sub>3</sub>	CF <sub>3</sub>	F	
20	A-989	CH <sub>3</sub>	F	SCF <sub>3</sub>	CF <sub>3</sub>	F	
	A-990	CH <sub>2</sub> CH <sub>3</sub>	F	SCF <sub>3</sub>	CF <sub>3</sub>	F	
	A-991	Н	F	OCHF <sub>2</sub>	CF <sub>3</sub>	F	
	A-992	F	F	OCHF <sub>2</sub>	CF <sub>3</sub>	F	
25	A-993	Cl	F	OCHF <sub>2</sub>	CF <sub>3</sub>	F	
23	A-994	CH <sub>3</sub>	F	OCHF <sub>2</sub>	CF <sub>3</sub>	F	
	A-995	CH <sub>2</sub> CH <sub>3</sub>	F	OCHF <sub>2</sub>	CF <sub>3</sub>	F	
	A-996	H	F	OCF <sub>3</sub>	CF <sub>3</sub>	F	
	A-997	F	F	OCF <sub>3</sub>	CF <sub>3</sub>	F	
30	A-998	Cl	F	OCF <sub>3</sub>	CF <sub>3</sub>	F	
	A-999	CH <sub>3</sub>	F	OCF <sub>3</sub>	CF <sub>3</sub>	F	
	A-1000	CH <sub>2</sub> CH <sub>3</sub>	F	OCF <sub>3</sub>	CF <sub>3</sub>	F	
	A-1001	Н	F	F	Н	cı	
35	A-1002	F	F	F	H	Cl	
	A-1003	Cl	F	F	H	Cl	
40	A-1004	CH <sub>3</sub>	F	F	н	cl	
	A-1005	CH <sub>2</sub> CH <sub>3</sub>	F	F	H	Cl	
	A-1006	Н	F	Cl	H	Cl	
	A-1007	F	F	Cl	H	Cl	
	A-1008	Cl	F	C1	H	Cl	
	A-1009	CH <sub>3</sub>	F	Cl	Н	Cl	
	A-1010	CH <sub>2</sub> CH <sub>3</sub>	F	Cl	H	Cl	
45	A-1011	В	F	CHF2	H	Cl	
	A-1012	F	F	CHF2	H	Cl	

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_	63						
	No.	R <sup>1</sup>	R <sup>2</sup>	R11	R <sup>12</sup>	R <sup>13</sup>	
	A-1013	Cl	F	CHF2	H	Cl	
	A-1014	CH <sub>3</sub>	F	CHF2	H	Cl	
5	A-1015	CH <sub>2</sub> CH <sub>3</sub>	F	CHF2	H	Cl	
	A-1016	H	F	CF <sub>3</sub>	H	Cl	
	A-1017	F	F	CF <sub>3</sub>	H	Cl	
	A-1018	Cl	F	CF <sub>3</sub>	H	Cl	
	A-1019	CH <sub>3</sub>	F	CF <sub>3</sub>	H	Cl	
10	A-1020	CH <sub>2</sub> CH <sub>3</sub>	F	CF <sub>3</sub>	H	Cl	
i	A-1021 .	H	F	SCHF <sub>2</sub>	H	Cl	
	A-1022	F	F	SCHF <sub>2</sub>	H	Cl	
	A-1023	Cl	F	SCHF <sub>2</sub>	Ħ	Cl	
15	A-1024	CH <sub>3</sub>	F	SCHF <sub>2</sub>	H	Cl	
	A-1025	CH <sub>2</sub> CH <sub>3</sub>	F	SCHF <sub>2</sub>	H	Cl	
	A-1026	H	F	SCF <sub>3</sub>	Ħ	Cl	
	A-1027	F	F	SCF <sub>3</sub>	H	Cl	
20	A-1028	Cl	F	SCF <sub>3</sub>	H	Cl	
	A-1029	CH <sub>3</sub>	F	SCF <sub>3</sub>	H	C1	
	A-1030	CH <sub>2</sub> CH <sub>3</sub>	F	SCF <sub>3</sub>	H	Cl	
	A-1031	H	F	OCHF <sub>2</sub>	Н	Cl	
25	A-1032	F	F	OCHF <sub>2</sub>	Ħ	Cl	
	A-1033	Cl	F	OCHF <sub>2</sub>	H	Cl	
	A-1034	CH <sub>3</sub>	F	OCHF <sub>2</sub>	Ħ	Cl	
	A-1035	CH <sub>2</sub> CH <sub>3</sub>	F	OCHF <sub>2</sub>	H	Cl	
	A-1036	H	F	OCF <sub>3</sub>	H .	Cl	
30	A-1037	F	F	OCF <sub>3</sub>	H	Cl	
	A-1038	Cl	F	OCF <sub>3</sub>	H	Cl	
	A-1039	CH <sub>3</sub>	F	OCF <sub>3</sub>	H	Cl	
	A-1040	CH <sub>2</sub> CH <sub>3</sub>	F	OCF <sub>3</sub>	H	Cl	
35	A-1041	H	F	F	F	Cl	
	A-1042	F	F	F	F	Cl	
40	A-1043	Cl	F	F	F	Cl	
	A-1044	CH <sub>3</sub>	F	F	F	Cl	
	A-1045	CH <sub>2</sub> CH <sub>3</sub>	F	F	F	Cl	
	A-1046	H	F	Cl	F	Cl	
	A-1047	F	F	Cl	F	Cl	
	A-1048	Cl	F	Cl	F	Cl	
4 8	A-1049	CH <sub>3</sub>	F	Cl	F	Cl	
45	A-1050	CH <sub>2</sub> CH <sub>3</sub>	F	Cl	F	C1	
	A-1051	H	F	CHF2	F	Cl	





Γ	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R12	R <sup>13</sup>
Ī	A-1052	F	F	CHF2	F	Cl
	A-1053	Cl	F	CHF2	F	Cl
5	A-1054	CH <sub>3</sub>	F	CHF2	F	Cl
_ ,	A-1055	CH <sub>2</sub> CH <sub>3</sub>	F	CHF2	F	Cl
	A-1056	н	F	CF <sub>3</sub>	F	Cl
	A-1057	F	F	CF <sub>3</sub>	F	Cl
	A-1058	Cl	F	CF <sub>3</sub>	F	Cl
10	A-1059	CH <sub>3</sub>	F	CF <sub>3</sub>	F	Cl
1	A-1060	CH <sub>2</sub> CH <sub>3</sub>	F	CF <sub>3</sub>	F	Cl
	A-1061	H	F	SCHF <sub>2</sub>	F	Cl
	A-1062	F	F	SCHF <sub>2</sub>	F	Cl
15	A-1063	Cl	F	SCHF <sub>2</sub>	F	Cl
	A-1064	CH <sub>3</sub>	F	SCHF <sub>2</sub>	F	Cl
į	A-1065	CH <sub>2</sub> CH <sub>3</sub>	F	SCHF <sub>2</sub>	F	Cl
	A-1066	H	F	SCF <sub>3</sub>	F	Cl
20	A-1067	F	F	SCF <sub>3</sub>	F	Cl
	A-1068	C1	F	SCF <sub>3</sub>	F	Cl
	A-1069	CH <sub>3</sub>	F	SCF <sub>3</sub>	F	Cl
	A-1070	CH <sub>2</sub> CH <sub>3</sub>	F	SCF <sub>3</sub>	F	C1
25	A-1071	H	F	OCHF <sub>2</sub>	F	Cl
	A-1072	F	F	OCHF <sub>2</sub>	F	Cl
	A-1073	Cl	F	OCHF <sub>2</sub>	F	Cl
	A-1074	CH <sub>3</sub>	F	OCHF <sub>2</sub>	F	cl
	A-1075	CH <sub>2</sub> CH <sub>3</sub>	F	OCHF <sub>2</sub>	F	Cl
30	A-1076	H	F	OCF <sub>3</sub>	F	Cl
	A-1077	F	F	OCF <sub>3</sub>	F	Cl
	A-1078	C1	F	OCF <sub>3</sub>	F	Cl
	A-1079	CH <sub>3</sub>	F	OCF <sub>3</sub>	F	Cl
35	A-1080	CH <sub>2</sub> CH <sub>3</sub>	F	OCF <sub>3</sub>	F	Cl
	A-1081	Ħ	F	F	Cl	Cl
40	A-1082	F	F	F	Cl	Cl
	A-1083	Cl	F	F	Cl	Cl
	A-1084	CH <sub>3</sub>	F	F	Cl	Cl
	A-1085	CH <sub>2</sub> CH <sub>3</sub>	F	F	Cl	Cl
	A-1086	H	F	Cl	Cl	Cl
	A-1087	F	F	Cl	Cl	Cl
AF	A-1088	Cl	F	Cl	Cl	Cl
45	A-1089	CH <sub>3</sub>	F	Cl	Cl	C1
	A-1090	CH <sub>2</sub> CH <sub>3</sub>	F	C1	Cl	Cl

No.   R <sup>1</sup>		
### A-1092   F   F   CHF2   C1   C1	No.	R <sup>13</sup>
A-1093         C1         F         CHF2         C1         C1           A-1094         CH3         F         CHF2         C1         C1           A-1095         CH2CH3         F         CHF2         C1         C1           A-1096         H         F         CF3         C1         C1           A-1097         F         F         CF3         C1         C1           A-1098         C1         F         CF3         C1         C1           A-1099         CH3         F         CF3         C1         C1           A-1100         CH2CH3         F         CF3         C1         C1           A-1101         H         F         SCHF2         C1         C1           A-1101         H         F         SCHF2         C1         C1           A-1103         C1         F         SCHF2         C1         C1           A-1104         CH3         F         SCHF2         C1         C1           A-1105         CH2CH3         F         SCHF2         C1         C1           A-1106         H         F         SCF3         C1         C1           <	A-1091	Cl
A-1094 CH <sub>3</sub> F CHF2 C1 C1 A-1095 CH <sub>2</sub> CH <sub>3</sub> F CHF2 C1 C1 A-1096 H F CF <sub>3</sub> C1 C1 A-1097 F F F CF <sub>3</sub> C1 C1 A-1098 C1 F CF <sub>3</sub> C1 C1 A-1099 CH <sub>3</sub> F CF <sub>3</sub> C1 C1 A-1100 CH <sub>2</sub> CH <sub>3</sub> F CF <sub>3</sub> C1 C1 A-1101 H F F SCHF <sub>2</sub> C1 C1 A-1102 F F SCHF <sub>2</sub> C1 C1 A-1104 CH <sub>3</sub> F SCHF <sub>2</sub> C1 C1 A-1105 CH <sub>2</sub> CH <sub>3</sub> F SCHF <sub>2</sub> C1 C1 A-1106 H F SCH <sub>2</sub> C1 C1 A-1107 F F SCF <sub>3</sub> C1 C1 A-1108 C1 F SCF <sub>3</sub> C1 C1 A-1108 C1 F SCF <sub>3</sub> C1 C1 A-1109 CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1109 CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1109 CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1109 CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1109 CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1111 H F CCH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1112 F F F CCH <sub>2</sub> C1 C1 A-1113 C1 F CCH <sub>2</sub> CH <sub>2</sub> C1 C1 A-1114 CH <sub>3</sub> F CCH <sub>2</sub> C1 C1 A-1115 CH <sub>2</sub> CH <sub>3</sub> F CCH <sub>2</sub> C1 C1 A-1116 H F CCH <sub>2</sub> C1 C1 A-1117 F F CCH <sub>3</sub> F CCH <sub>2</sub> C1 C1 A-1116 H F CCH <sub>3</sub> C1 C1 A-1117 F F CCH <sub>3</sub> C1 C1 A-1118 C1 F CCF <sub>3</sub> C1 C1 C1 A-1118 C1 F CCF <sub>3</sub> C1 C1 C1 A-1118 C1 F CCF <sub>3</sub> C1 C1 C1 A-1118 C1 F CCF <sub>3</sub> C1 C1 C1 A-1118 C1 F CCF <sub>3</sub> C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C	A-1092	Cl
A-1095 CH <sub>2</sub> CH <sub>3</sub> F CHF2 C1 C1 A-1096 H F CF <sub>3</sub> C1 C1 A-1097 F F F CF <sub>3</sub> C1 C1 A-1098 C1 F CF <sub>3</sub> C1 C1 A-1099 CH <sub>3</sub> F CF <sub>3</sub> C1 C1 A-1100 CH <sub>2</sub> CH <sub>3</sub> F CF <sub>3</sub> C1 C1 A-1101 H F SCHF <sub>2</sub> C1 C1 A-1102 F F SCHF <sub>2</sub> C1 C1 A-1103 C1 F SCHF <sub>2</sub> C1 C1 A-1104 CH <sub>3</sub> F SCHF <sub>2</sub> C1 C1 A-1105 CH <sub>2</sub> CH <sub>3</sub> F SCHF <sub>2</sub> C1 C1 A-1106 H F SCHF <sub>2</sub> C1 C1 A-1107 F F SCF <sub>3</sub> C1 C1 C1 A-1108 C1 F SCF <sub>3</sub> C1 C1 A-1109 CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1109 CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1101 CH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1101 CH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1101 CH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1101 CH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1111 H F CCH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1111 CH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1111 CH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1111 CH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1111 CH <sub>3</sub> C1 F CCHF <sub>2</sub> C1 C1 A-1111 CH <sub>3</sub> C1 F CCHF <sub>2</sub> C1 C1 A-1115 CH <sub>2</sub> CH <sub>3</sub> F CCHF <sub>2</sub> C1 C1 A-1116 CH <sub>3</sub> F CCH <sub>2</sub> C1 C1 A-1117 F F CCH <sub>3</sub> C1 C1 A-1118 C1 F CCF <sub>3</sub> C1 C1 A-1118 C1 F CCF <sub>3</sub> C1 C1 C1 A-1118 C1 F CCF <sub>3</sub> C1 C1 C1 A-1118 C1 F CCF <sub>3</sub> C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C	A-1093	Cl
A-1096 H F CF3 C1 C1 A-1097 F F F CF3 C1 C1 A-1098 C1 F CF3 C1 C1 A-1099 CH3 F CF3 C1 C1 A-1100 CH2CH3 F CF3 C1 C1 A-1101 H F SCHF2 C1 C1 A-1102 F F SCHF2 C1 C1 A-1104 CH3 F SCHF2 C1 C1 A-1105 CH2CH3 F SCHF2 C1 C1 C1 A-1106 H F SCHF2 C1 C1 C1 A-1107 F F SCF3 C1 C1 C1 A-1108 C1 F SCF3 C1 C1 A-1109 CH3 F SCF3 C1 C1 C1 A-1109 CH3 F SCF3 C1 C1 C1 A-1110 CH2CH3 F SCF3 C1 C1 C1 A-1111 H F CCH2CH3 F SCF3 C1 C1 A-1111 H F CCH2CH3 F SCF3 C1 C1 C1 A-1111 H F CCH2CH3 F SCF3 C1 C1 C1 A-1111 H F CCH2CH3 F SCF3 C1 C1 C1 A-1111 H F CCH2CH3 F SCF3 C1 C1 C1 A-1111 H F CCH2CH3 F SCF3 C1 C1 C1 A-1111 H F CCH2CH3 F SCF3 C1 C1 C1 A-1111 H F CCH2CH3 F SCF3 C1 C1 C1 A-1111 H F CCH2CH3 F SCF3 C1 C1 C1 A-1111 C CH2CH3 F SCF3 C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C	A-1094	Cl
10	A-1095	Cl
A-1098   C1	A-1096	Cl
A-1098 C1 F CF <sub>3</sub> C1 C1 A-1099 CH <sub>3</sub> F CF <sub>3</sub> C1 C1 A-1100 CH <sub>2</sub> CH <sub>3</sub> F CF <sub>3</sub> C1 C1 A-1101 H F SCHF <sub>2</sub> C1 C1 A-1102 F F F SCHF <sub>2</sub> C1 C1 A-1103 C1 F SCHF <sub>2</sub> C1 C1 A-1104 CH <sub>3</sub> F SCHF <sub>2</sub> C1 C1 A-1105 CH <sub>2</sub> CH <sub>3</sub> F SCHF <sub>2</sub> C1 C1 A-1106 H F SCF <sub>3</sub> C1 C1 A-1107 F F SCF <sub>3</sub> C1 C1 A-1108 C1 F SCF <sub>3</sub> C1 C1 A-1109 CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1109 CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1110 CH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1111 H F CCH <sub>2</sub> CH <sub>3</sub> F CCH <sub>2</sub> C1 C1 A-1112 F F CCH <sub>2</sub> CH <sub>3</sub> F CCH <sub>2</sub> C1 C1 A-1113 C1 F CCH <sub>2</sub> C1 C1 A-1114 CH <sub>3</sub> F CCH <sub>2</sub> C1 C1 A-1115 CH <sub>2</sub> CH <sub>3</sub> F CCH <sub>2</sub> C1 C1 A-1116 H F CCH <sub>3</sub> F CCH <sub>2</sub> C1 C1 A-1117 F F CCH <sub>3</sub> F CCH <sub>3</sub> C1 C1 A-1117 F F CCH <sub>3</sub> F CCH <sub>3</sub> C1 C1 A-1118 C1 F CCF <sub>3</sub> C1 C1 C1 A-1118 C1 F CCF <sub>3</sub> C1 C1 C1 A-1118 C1 F CCF <sub>3</sub> C1 C1 C1 A-1118 C1 F CCF <sub>3</sub> C1 C1		Cl
A-1100 CH <sub>2</sub> CH <sub>3</sub> F CF <sub>3</sub> C1 C1 A-1101 H F SCHF <sub>2</sub> C1 C1 A-1102 F F F SCHF <sub>2</sub> C1 C1 A-1103 C1 F SCHF <sub>2</sub> C1 C1 A-1104 CH <sub>3</sub> F SCHF <sub>2</sub> C1 C1 A-1105 CH <sub>2</sub> CH <sub>3</sub> F SCHF <sub>2</sub> C1 C1 A-1106 H F SCF <sub>3</sub> C1 C1 A-1107 F F SCF <sub>3</sub> C1 C1 A-1108 C1 F SCF <sub>3</sub> C1 C1 A-1109 CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1110 CH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1111 H F CCH <sub>2</sub> CH <sub>3</sub> F CCHF <sub>2</sub> C1 C1 A-1112 F F OCHF <sub>2</sub> C1 C1 A-1114 CH <sub>3</sub> F OCHF <sub>2</sub> C1 C1 A-1115 CH <sub>2</sub> CH <sub>3</sub> F OCHF <sub>2</sub> C1 C1 A-1116 H F OCHF <sub>2</sub> C1 C1 A-1117 F F OCHF <sub>2</sub> C1 C1 A-1117 F F OCHF <sub>3</sub> C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1	A-1098	Cl
A-1101 H F SCHF <sub>2</sub> C1 C1 A-1102 F F F SCHF <sub>2</sub> C1 C1 A-1103 C1 F SCHF <sub>2</sub> C1 C1 A-1104 CH <sub>3</sub> F SCHF <sub>2</sub> C1 C1 A-1105 CH <sub>2</sub> CH <sub>3</sub> F SCHF <sub>2</sub> C1 C1 A-1106 H F SCF <sub>3</sub> C1 C1 A-1107 F F F SCF <sub>3</sub> C1 C1 A-1108 C1 F SCF <sub>3</sub> C1 C1 A-1109 CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1110 CH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1111 H F F OCHF <sub>2</sub> C1 C1 A-1112 F F OCHF <sub>2</sub> C1 C1 A-1113 C1 F OCHF <sub>2</sub> C1 C1 A-1114 CH <sub>3</sub> F OCHF <sub>2</sub> C1 C1 A-1115 CH <sub>2</sub> CH <sub>3</sub> F OCHF <sub>2</sub> C1 C1 A-1116 H F OCHF <sub>2</sub> C1 C1 A-1117 F F OCF <sub>3</sub> C1 C1 A-1117 F F OCF <sub>3</sub> C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1	A-1099	Cl
15	A-1100	Cl
A-1103 C1 F SCHF <sub>2</sub> C1 C1  A-1104 CH <sub>3</sub> F SCHF <sub>2</sub> C1 C1  A-1105 CH <sub>2</sub> CH <sub>3</sub> F SCHF <sub>2</sub> C1 C1  A-1106 H F SCF <sub>3</sub> C1 C1  A-1107 F F SCF <sub>3</sub> C1 C1  A-1108 C1 F SCF <sub>3</sub> C1 C1  A-1109 CH <sub>3</sub> F SCF <sub>3</sub> C1 C1  A-1110 CH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> C1 C1  A-1111 H F F OCHF <sub>2</sub> C1 C1  A-1112 F F OCHF <sub>2</sub> C1 C1  A-1113 C1 F OCHF <sub>2</sub> C1 C1  A-1114 CH <sub>3</sub> F OCHF <sub>2</sub> C1 C1  A-1115 CH <sub>2</sub> CH <sub>3</sub> F OCHF <sub>2</sub> C1 C1  A-1116 H F OCF <sub>3</sub> C1 C1  A-1117 F F OCF <sub>3</sub> C1 C1  A-1118 C1 F OCF <sub>3</sub> C1 C1  A-1118 C1 F OCF <sub>3</sub> C1 C1		Cl
A-1104 CH <sub>3</sub> F SCHF <sub>2</sub> C1 C1 A-1105 CH <sub>2</sub> CH <sub>3</sub> F SCHF <sub>2</sub> C1 C1 A-1106 H F SCF <sub>3</sub> C1 C1 A-1107 F F F SCF <sub>3</sub> C1 C1 A-1108 C1 F SCF <sub>3</sub> C1 C1 A-1109 CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1110 CH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1111 H F F OCHF <sub>2</sub> C1 C1 A-1112 F F OCHF <sub>2</sub> C1 C1 A-1113 C1 F OCHF <sub>2</sub> C1 C1 A-1114 CH <sub>3</sub> F OCHF <sub>2</sub> C1 C1 A-1115 CH <sub>2</sub> CH <sub>3</sub> F OCHF <sub>2</sub> C1 C1 A-1116 H F OCHF <sub>2</sub> C1 C1 A-1117 F F F OCF <sub>3</sub> C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1	A-1102	Cl
A-1105	A-1103	Cl
A-1106 H F SCF <sub>3</sub> C1 C1 A-1107 F F F SCF <sub>3</sub> C1 C1 A-1108 C1 F SCF <sub>3</sub> C1 C1 A-1109 CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1110 CH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1111 H F F OCHF <sub>2</sub> C1 C1 A-1112 F F F OCHF <sub>2</sub> C1 C1 A-1113 C1 F OCHF <sub>2</sub> C1 C1 A-1114 CH <sub>3</sub> F OCHF <sub>2</sub> C1 C1 A-1115 CH <sub>2</sub> CH <sub>3</sub> F OCHF <sub>2</sub> C1 C1 A-1116 H F OCF <sub>3</sub> C1 C1 A-1117 F F OCF <sub>3</sub> C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1	A-1104	Cl
A-1107 F F SCF <sub>3</sub> C1 C1 A-1108 C1 F SCF <sub>3</sub> C1 C1 A-1109 CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1110 CH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1111 H F OCHF <sub>2</sub> C1 C1 A-1112 F F OCHF <sub>2</sub> C1 C1 A-1113 C1 F OCHF <sub>2</sub> C1 C1 A-1114 CH <sub>3</sub> F OCHF <sub>2</sub> C1 C1 A-1115 CH <sub>2</sub> CH <sub>3</sub> F OCHF <sub>2</sub> C1 C1 A-1116 H F OCF <sub>3</sub> C1 C1 A-1117 F F OCF <sub>3</sub> C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1 A-1119 CH <sub>3</sub> F OCF <sub>3</sub> C1 C1	A-1105	Cl
A-1108 C1 F SCF <sub>3</sub> C1 C1 A-1109 CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1110 CH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> C1 C1 A-1111 H F F OCHF <sub>2</sub> C1 C1 A-1112 F F F OCHF <sub>2</sub> C1 C1 A-1113 C1 F OCHF <sub>2</sub> C1 C1 A-1114 CH <sub>3</sub> F OCHF <sub>2</sub> C1 C1 A-1115 CH <sub>2</sub> CH <sub>3</sub> F OCHF <sub>2</sub> C1 C1 A-1116 H F OCF <sub>3</sub> C1 C1 A-1117 F F OCF <sub>3</sub> C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1 A-1119 CH <sub>3</sub> F OCF <sub>3</sub> C1 C1	A-1106	C1
A-1109 CH <sub>3</sub> F SCF <sub>3</sub> Cl Cl A-1110 CH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> Cl Cl A-1111 H F OCHF <sub>2</sub> Cl Cl A-1112 F F OCHF <sub>2</sub> Cl Cl A-1113 Cl F OCHF <sub>2</sub> Cl Cl A-1114 CH <sub>3</sub> F OCHF <sub>2</sub> Cl Cl A-1115 CH <sub>2</sub> CH <sub>3</sub> F OCHF <sub>2</sub> Cl Cl A-1116 H F OCF <sub>3</sub> Cl Cl A-1117 F F OCF <sub>3</sub> Cl Cl A-1118 Cl F OCF <sub>3</sub> Cl Cl A-1118 Cl F OCF <sub>3</sub> Cl Cl A-1119 CH <sub>3</sub> F OCF <sub>3</sub> Cl Cl	A-1107	Cl
25 A-1110 CH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> Cl Cl A-1111 H F OCHF <sub>2</sub> Cl Cl A-1112 F F OCHF <sub>2</sub> Cl Cl A-1113 Cl F OCHF <sub>2</sub> Cl Cl A-1114 CH <sub>3</sub> F OCHF <sub>2</sub> Cl Cl A-1115 CH <sub>2</sub> CH <sub>3</sub> F OCHF <sub>2</sub> Cl Cl A-1116 H F OCF <sub>3</sub> Cl Cl A-1117 F F OCF <sub>3</sub> Cl Cl A-1118 Cl F OCF <sub>3</sub> Cl Cl 35 A-1119 CH <sub>3</sub> F OCF <sub>3</sub> Cl Cl	A-1108	Cl
A-1111 H F OCHF <sub>2</sub> C1 C1 A-1112 F F OCHF <sub>2</sub> C1 C1 A-1113 C1 F OCHF <sub>2</sub> C1 C1 A-1114 CH <sub>3</sub> F OCHF <sub>2</sub> C1 C1 A-1115 CH <sub>2</sub> CH <sub>3</sub> F OCHF <sub>2</sub> C1 C1 A-1116 H F OCF <sub>3</sub> C1 C1 A-1117 F F OCF <sub>3</sub> C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1 A-1119 CH <sub>3</sub> F OCF <sub>3</sub> C1 C1	A-1109	Cl
A-1111 H F OCHF <sub>2</sub> C1 C1  A-1112 F F OCHF <sub>2</sub> C1 C1  A-1113 C1 F OCHF <sub>2</sub> C1 C1  A-1114 CH <sub>3</sub> F OCHF <sub>2</sub> C1 C1  A-1115 CH <sub>2</sub> CH <sub>3</sub> F OCHF <sub>2</sub> C1 C1  A-1116 H F OCF <sub>3</sub> C1 C1  A-1117 F F OCF <sub>3</sub> C1 C1  A-1118 C1 F OCF <sub>3</sub> C1 C1  A-1118 C1 F OCF <sub>3</sub> C1 C1  A-1119 CH <sub>3</sub> F OCF <sub>3</sub> C1 C1	A-1110	Cl
A-1113 C1 F OCHF <sub>2</sub> C1 C1 A-1114 CH <sub>3</sub> F OCHF <sub>2</sub> C1 C1 A-1115 CH <sub>2</sub> CH <sub>3</sub> F OCHF <sub>2</sub> C1 C1 A-1116 H F OCF <sub>3</sub> C1 C1 A-1117 F F OCF <sub>3</sub> C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C	A-1111	Cl
A-1114 CH <sub>3</sub> F OCHF <sub>2</sub> C1 C1 A-1115 CH <sub>2</sub> CH <sub>3</sub> F OCHF <sub>2</sub> C1 C1 A-1116 H F OCF <sub>3</sub> C1 C1 A-1117 F F OCF <sub>3</sub> C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1 C1 A-1119 CH <sub>3</sub> F OCF <sub>3</sub> C1 C1	A-1112	C1
30 A-1115 CH <sub>2</sub> CH <sub>3</sub> F OCHF <sub>2</sub> C1 C1 A-1116 H F OCF <sub>3</sub> C1 C1 A-1117 F F OCF <sub>3</sub> C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1 35 A-1119 CH <sub>3</sub> F OCF <sub>3</sub> C1 C1	A-1113	Cl
A-1115 CH <sub>2</sub> CH <sub>3</sub> F OCH <sub>2</sub> C1 C1 A-1116 H F OCF <sub>3</sub> C1 C1 A-1117 F F OCF <sub>3</sub> C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1 35 A-1119 CH <sub>3</sub> F OCF <sub>3</sub> C1 C1		Cl
A-1117 F F OCF <sub>3</sub> C1 C1 A-1118 C1 F OCF <sub>3</sub> C1 C1 35 A-1119 CH <sub>3</sub> F OCF <sub>3</sub> C1 C1	A-1115	Cl
A-1118 C1 F OCF <sub>3</sub> C1 C1 35 A-1119 CH <sub>3</sub> F OCF <sub>3</sub> C1 C1	A-1116	Cl
35 A-1119 CH <sub>3</sub> F OCF <sub>3</sub> C1 C1	A-1117	Cl
	A-1118	Cl
A-1120 CH-CH- F OCE- C1 C1	5 A-1119	Cl
A-1120 CH2CH3 1 CH	A-1120	Cl
A-1121 H F F CHF <sub>2</sub> C1	A-1121	Cl
A-1122 F F F CHF <sub>2</sub> C1	A-1122	Cl
40 A-1123 Cl F F CHF <sub>2</sub> Cl	0 A-1123	Cl
A-1124 CH <sub>3</sub> F F CHF <sub>2</sub> C1	A-1124	Cl
A-1125 CH <sub>2</sub> CH <sub>3</sub> F F CHF <sub>2</sub> C1	A-1125	Cl
A-1126 H F Cl CHF <sub>2</sub> C1	A-1126	Cl
45 A-1127 F F C1 CHF <sub>2</sub> C1	A-1127	Cl
A-1128 C1 F C1 CHF <sub>2</sub> C1	A-1128	Cl
A-1129 CH <sub>3</sub> F Cl CHF <sub>2</sub> Cl	A-1129	Cl



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No.   No.				00			
A-1131 H F F CHF2 CHF2 C1  A-1132 F F F CHF2 CHF2 C1  A-1133 C1 F CHF2 CHF2 C1  A-1134 CH3 F CHF2 CHF2 C1  A-1135 CH2CH3 F CHF2 CHF2 C1  A-1135 CH2CH3 F CHF2 CHF2 C1  A-1136 H F F CF3 CHF2 C1  A-1137 F F F CF3 CHF2 C1  A-1138 C1 F CF3 CHF2 C1  A-1139 CH3 F CF3 CHF2 C1  A-1139 CH3 F CF3 CHF2 C1  A-1140 CH2CH3 F CF3 CHF2 C1  A-1141 H F F SCHF2 CHF2 C1  A-1142 F F SCHF2 CHF2 C1  A-1144 CH3 F SCHF2 CHF2 C1  A-1145 CH2CH3 F SCHF2 CHF2 C1  A-1146 H F SCHF2 CHF2 C1  A-1147 F F SCHF2 CHF2 C1  A-1148 C1 F SCHF2 CHF2 C1  A-1148 C1 F SCHF2 CHF2 C1  A-1149 CH3 F SCHF2 CHF2 C1  A-1149 CH3 F SCF3 CHF2 C1  A-1150 CH2CH3 F SCF3 CHF2 C1  A-1151 H F SCF3 CHF2 C1  A-1150 CH2CH3 F SCF3 CHF2 C1  A-1150 CH2CH3 F SCF3 CHF2 C1  A-1150 CH2CH3 F SCF3 CHF2 C1  A-1150 CH2CH3 F SCF3 CHF2 C1  A-1150 CH2CH3 F SCF3 CHF2 C1  A-1150 CH2CH3 F SCF3 CHF2 C1  A-1150 CH2CH3 F SCF3 CHF2 C1  A-1150 CH2CH3 F SCF3 CHF2 C1  A-1150 CH2CH3 F SCF3 CHF2 C1  A-1150 CH2CH3 F SCF3 CHF2 C1  A-1150 CH2CH3 F SCF3 CHF2 C1  A-1150 CH2CH3 F SCF3 CHF2 C1  A-1150 CH2CH3 F SCF3 CHF2 C1  A-1150 CH2CH3 F SCF3 CHF2 C1  A-1150 CH2CH3 F SCF3 CHF2 C1  A-1150 CH2CH3 F SCF3 CHF2 C1  A-1150 CH2CH3 F SCF3 CHF2 C1  A-1150 CH2CH3 F SCF3 CHF2 C1  A-1150 CH2CH3 F CCHF2 C1  A-1150 CH2CH3 F CCHF2 CHF2 C1  A-1150 CH2CH3 F CCHF2 CHF2 C1  A-1150 CH2CH3 F CCHF2 CHF2 C1  A-1150 CH2CH3 F CCHF2 CHF2 C1  A-1150 CH2CH3 F CCHF2 CHF2 C1  A-1150 CH2CH3 F CCHF2 CHF2 C1  A-1150 CH2CH3 F CCHF2 CHF2 C1  A-1150 CH2CH3 F CCHF2 CHF2 C1  A-1150 CH2CH3 F CCHF2 CHF2 C1  A-1150 CH2CH3 F CCHF2 C1  A-1150 CH2CH3 F CCF3 CHF2 C1  A-1160 CH2CH3 F CCF3 CHF2 C1  A-1161 H F F CCF3 CH  A-1162 CH F F F CCF3 C1  A-1164 CH3 F F CCF3 C1  A-1165 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH	[i	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R <sup>12</sup>	R <sup>13</sup>
A-1132   F	Ì	A-1130	CH <sub>2</sub> CH <sub>3</sub>	F	Cl	CHF <sub>2</sub>	
A-1132	t	A-1131	Ħ	F	CHF2	CHF <sub>2</sub>	C1
A-1133 C1 F CHF2 CHF2 C1 A-1134 CB3 F CHF2 CHF2 C1 A-1135 CB2CB3 F CHF2 CHF2 C1 A-1135 CB2CB3 F CHF2 CHF2 C1 A-1136 H F CF3 CHF2 C1 A-1137 F F F CF3 CHF2 C1 A-1138 C1 F CF3 CHF2 C1 A-1139 CB3 F CF3 CHF2 C1 A-1139 CB3 F CF3 CHF2 C1 A-1140 CB2CB3 F CF3 CHF2 C1 A-1141 H F F SCHF2 CHF2 C1 A-1142 F F SCHF2 CHF2 C1 A-1144 CB3 F SCHF2 CHF2 C1 A-1144 CB3 F SCHF2 CHF2 C1 A-1145 CB2CB3 F SCHF2 CHF2 C1 A-1146 H F SCF3 CHF2 C1 A-1147 F F SCHF2 CHF2 C1 A-1148 C1 F SCF3 CHF2 C1 A-1149 CB3 F SCF3 CHF2 C1 A-1149 CB3 F SCF3 CHF2 C1 A-1150 CB2CB3 F SCF3 CHF2 C1 A-1151 H F OCHF2 CHF2 C1 A-1152 F F F CCH2 C1 A-1155 CB2CB3 F CCHF2 CHF2 C1 A-1156 H F CCHF2 CHF2 C1 A-1157 F F CCHF2 CHF2 C1 A-1158 C1 F CCHF2 CHF2 C1 A-1159 CB3 F CCHF2 CHF2 C1 A-1150 CB2CB3 F CCHF2 CHF2 C1 A-1151 CB3 C1 F CCHF2 CHF2 C1 A-1151 CH3 CH3 F CCHF2 C1 A-1151 CH3 CH3 CH3 CH3 CH3 CH3 CH3 CH3 CH3 CH3	_ t	A-1132	P	F	CHF2	CHF <sub>2</sub>	
A-1136 CH <sub>2</sub> CH <sub>3</sub> F CHF <sub>2</sub> CHF <sub>2</sub> C1  A-1136 H F F CF <sub>3</sub> CHF <sub>2</sub> C1  A-1137 F F F CF <sub>3</sub> CHF <sub>2</sub> C1  A-1138 C1 F CF <sub>3</sub> CHF <sub>2</sub> C1  A-1139 CH <sub>3</sub> F CF <sub>3</sub> CHF <sub>2</sub> C1  A-1140 CH <sub>2</sub> CH <sub>3</sub> F CF <sub>3</sub> CHF <sub>2</sub> C1  A-1141 H F F SCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1142 F F F SCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1144 CH <sub>3</sub> F SCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1145 CH <sub>2</sub> CH <sub>3</sub> F SCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1146 H F SCF <sub>3</sub> CHF <sub>2</sub> CHF <sub>2</sub> C1  A-1147 F F SCH <sub>2</sub> CHF <sub>2</sub> C1  A-1148 C1 F SCF <sub>3</sub> CHF <sub>2</sub> C1  A-1149 CH <sub>3</sub> F SCF <sub>3</sub> CHF <sub>2</sub> C1  A-1150 CH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> CHF <sub>2</sub> C1  A-1151 H F CCH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> CHF <sub>2</sub> C1  A-1152 F F CCH <sub>2</sub> C1  A-1153 C1 F CCH <sub>2</sub> CH <sub>2</sub> CHF <sub>2</sub> C1  A-1157 F F CCH <sub>2</sub> CH <sub>3</sub> F CCHF <sub>2</sub> C1  A-1150 CH <sub>2</sub> CH <sub>3</sub> F CCH <sub>2</sub> CHF <sub>2</sub> C1  A-1151 H F CCH <sub>2</sub> CH <sub>3</sub> F CCHF <sub>2</sub> C1  A-1151 CH <sub>2</sub> CH <sub>3</sub> F CCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1151 CH <sub>2</sub> CH <sub>3</sub> F CCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1151 CH <sub>2</sub> CH <sub>3</sub> F CCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1150 CH <sub>2</sub> CH <sub>3</sub> F CCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1151 CH <sub>3</sub> F CCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1151 CH <sub>3</sub> F CCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1151 CH <sub>3</sub> F CCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1151 CH <sub>3</sub> F CCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1151 CH <sub>3</sub> F CCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1151 CH <sub>3</sub> F CCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1151 CH <sub>3</sub> F CCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1151 CH <sub>3</sub> F CCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1151 CH <sub>3</sub> F CCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1151 CH <sub>3</sub> F CCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1151 CH <sub>3</sub> F CCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1151 CH <sub>3</sub> F CCH <sub>3</sub> CHF <sub>2</sub> C1  A-1151 CH <sub>3</sub> F CCH <sub>3</sub> CHF <sub>2</sub> C1  A-1151 CH <sub>3</sub> CH <sub>3</sub> F CCH <sub>3</sub> CHF <sub>2</sub> C1  A-1151 CH <sub>3</sub> CH <sub>3</sub> F CCH <sub>3</sub> CHF <sub>2</sub> C1  A-1151 CH <sub>3</sub> CH <sub>3</sub> F CCH <sub>3</sub> CHF <sub>2</sub> C1  A-1151 CH <sub>3</sub> CH <sub>3</sub> F CCH <sub>3</sub> CHF <sub>2</sub> C1  A-1152 CH <sub>3</sub> F CCH <sub>3</sub> CHF <sub>2</sub> C1  A-1153 CH <sub>3</sub> F CCH <sub>3</sub> CHF <sub>2</sub> C1  A-1154 CH <sub>3</sub> F F CCF <sub>3</sub> CHF <sub>2</sub> C1  A-1160 CH <sub>2</sub> CH <sub>3</sub> F CCF <sub>3</sub> CHF <sub>2</sub> C1  A-1161 CH <sub>3</sub> CH <sub>3</sub> F F CCF <sub>3</sub> C1  A-1162 CH <sub>3</sub> F F CCF <sub>3</sub> C1  A-1163 C1 F F CF <sub>3</sub> C1  A-1164 CH <sub>3</sub> F F CCF <sub>3</sub> C1  A-1165 CH <sub>2</sub> CH <sub>3</sub> F F CCF <sub>3</sub> C1  A-1166 CH <sub>2</sub> CH <sub>3</sub> F F CCF <sub>3</sub> C1  A-1166 CH <sub>2</sub> CH <sub>3</sub> F F CCF <sub>3</sub> C1  A-1166 CH <sub>2</sub> CH <sub>3</sub> F F CCF <sub>3</sub> C1  A-1166 CH <sub>2</sub> CH <sub>3</sub> F F CCF <sub>3</sub> C1  A-1166 CH <sub>2</sub> CH <sub>3</sub> F F CCF <sub>3</sub> C1		A-1133	Cl	F	CHF2	CHF <sub>2</sub>	
A-1136 H F CF3 CHF2 C1  A-1137 F F CF3 CHF2 C1  A-1138 C1 F CF3 CHF2 C1  A-1139 CH3 F CF3 CHF2 C1  A-1140 CH2CH3 F CF3 CHF2 C1  A-1141 H F F SCHF2 CHF2 C1  A-1142 F F SCHF2 CHF2 C1  A-1143 C1 F SCHF2 CHF2 C1  A-1144 CH3 F SCHF2 CHF2 C1  A-1145 CH2CH3 F SCHF2 CHF2 C1  A-1146 H F SCHF2 CHF2 C1  A-1147 F F SCF3 CHF2 C1  A-1148 C1 F SCF3 CHF2 C1  A-1149 CH3 F SCF3 CHF2 C1  A-1149 CH3 F SCF3 CHF2 C1  A-1150 CH2CH3 F SCF3 CHF2 C1  A-1151 H F CCH2CH3 F SCF3 CHF2 C1  A-1152 F F SCF3 CHF2 C1  A-1153 C1 F CCH2CH2 C1  A-1154 CH3 F SCF3 CHF2 C1  A-1155 CH2CH3 F SCF3 CHF2 C1  A-1156 H F SCF3 CHF2 C1  A-1157 F F CCH2CH3 F CCHF2 C1  A-1158 C1 F CCH2CH2 CHF2 C1  A-1159 CH2CH3 F CCHF2 CHF2 C1  A-1150 CH2CH3 F CCHF2 CHF2 C1  A-1151 H F CCH2CH3 F CCHF2 CHF2 C1  A-1155 CH2CH3 F CCH2CH2 CHF2 C1  A-1156 H F CCH2CH3 F CCHF2 C1  A-1157 F F CCF3 CHF2 C1  A-1158 C1 F CCF3 CHF2 C1  A-1159 CH3 F CCF3 CHF2 C1  A-1160 CH2CH3 F CCF3 CHF2 C1  A-1161 H F F CCF3 CHF2 C1  A-1162 F F F CCF3 C1  A-1164 CH3 F F CCF3 C1  A-1165 CH2CH3 F F CCF3 C1  A-1166 H F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1  A-1166 CH2CH3 F F CCF3 C1	ţ	A-1134	CH <sub>3</sub>	F	CHF2	CHF <sub>2</sub>	
10	Ì	A-1135	CH <sub>2</sub> CH <sub>3</sub>	F	CHF2	CHF <sub>2</sub>	
A-1137 F F C C C C C C C C C C C C C C C C C		A-1136	Н	F	CF <sub>3</sub>	CHF <sub>2</sub>	
A-1139 CH3 F CF3 CHF2 C1 A-1140 CH2CH3 F CF3 CHF2 C1 A-1141 H F F SCHF2 CHF2 C1 A-1142 F F F SCHF2 CHF2 C1 A-1143 C1 F SCHF2 CHF2 C1 A-1144 CH3 F SCHF2 CHF2 C1 A-1145 CH2CH3 F SCHF2 CHF2 C1 A-1146 H F F SCF3 CHF2 C1 A-1147 F F F SCF3 CHF2 C1 A-1148 C1 F SCF3 CHF2 C1 A-1149 CH3 F SCF3 CHF2 C1 A-1150 CH2CH3 F SCF3 CHF2 C1 A-1151 H F F OCHF2 C1 A-1152 F F F OCHF2 C1 A-1153 C1 F OCHF2 C1 A-1155 CH2CH3 F OCHF2 C1 A-1157 F F OCHF2 CHF2 C1 A-1158 C1 F SCF3 CHF2 C1 A-1159 CH3 F OCHF2 CHF2 C1 A-1150 CH2CH3 F OCHF2 CHF2 C1 A-1151 H F F OCHF2 CHF2 C1 A-1157 CH2CH3 F OCHF2 CHF2 C1 A-1158 C1 F OCHF2 CHF2 C1 A-1159 CH3 F OCHF2 CHF2 C1 A-1150 CH2CH3 F OCHF2 CHF2 C1 A-1151 H F F OCHF2 CHF2 C1 A-1151 H F F OCHF2 CHF2 C1 A-1151 CH3 CH3 F OCHF2 CHF2 C1 A-1151 CH3 CH3 F OCHF2 CHF2 C1 A-1151 CH3 CH3 F OCHF2 CHF2 C1 A-1151 CH3 CH3 F OCHF2 CHF2 C1 A-1151 CH3 CH3 F OCF3 CHF2 C1 A-1151 CH3 CH3 F OCF3 CHF2 C1 A-1151 CH3 CH3 F OCF3 CHF2 C1 A-1151 CH3 CH3 F OCF3 CHF2 C1 A-1151 CH3 CH3 F OCF3 CHF2 C1 A-1151 CH3 CH3 F OCF3 CHF2 C1 A-1161 CH3 F F CF3 C1 A-1161 CH3 CH3 F F CF3 C1 A-1164 CH3 F F F CF3 C1 A-1165 CH2CH3 F F CF3 C1 A-1166 CH3 F F F CF3 C1 A-1166 CH3 F F F CF3 C1 A-1166 CH3 F F F CF3 C1	10	A-1137	F	F	CF <sub>3</sub>	CHF <sub>2</sub>	
A-1139 CH3 F CF3 CHF2 C1 A-1141 H F F SCHF2 CHF2 C1 A-1142 F F F SCHF2 CHF2 C1 A-1143 C1 F SCHF2 CHF2 C1 A-1144 CH3 F SCHF2 CHF2 C1 A-1145 CH2CH3 F SCHF2 CHF2 C1 A-1146 H F SCF3 CHF2 C1 A-1147 F F F SCF3 CHF2 C1 A-1148 C1 F SCF3 CHF2 C1 A-1149 CH3 F SCF3 CHF2 C1 A-1150 CH2CH3 F SCF3 CHF2 C1 A-1151 H F OCHF2 CHF2 C1 A-1152 F F OCHF2 C1 A-1153 C1 F OCHF2 CHF2 C1 A-1155 CH2CH3 F OCHF2 CHF2 C1 A-1157 F F OCHF2 CHF2 C1 A-1158 C1 F SCF3 CHF2 C1 A-1159 CH3 F SCF3 CHF2 C1 A-1150 CH2CH3 F OCHF2 CHF2 C1 A-1151 H F OCHF2 CHF2 C1 A-1151 H F OCHF2 CHF2 C1 A-1157 CH2CH3 F OCHF2 CHF2 C1 A-1158 C1 F OCHF2 CHF2 C1 A-1158 C1 F OCF3 CHF2 C1 A-1159 CH3 F OCF3 CHF2 C1 A-1150 CH2CH3 F OCF3 CHF2 C1 A-1150 CH2CH3 F OCF3 CHF2 C1 A-1151 H F F OCF3 CHF2 C1 A-1151 H F F OCF3 CHF2 C1 A-1151 CH3 F OCF3 CHF2 C1 A-1151 CH3 F OCF3 CHF2 C1 A-1151 CH3 F F OCF3 CHF2 C1 A-1151 CH3 F F OCF3 CHF2 C1 A-1151 CH3 F F OCF3 CHF2 C1 A-1151 CH3 F F OCF3 CHF2 C1 A-1161 CH3 F F CF3 C1 A-1161 CH3 F F F CF3 C1 A-1163 C1 F F F CF3 C1 A-1164 CH3 F F F CF3 C1 A-1165 CH2CH3 F F CF3 C1 A-1166 CH3CH3 F F CF3 C1 A-1166 CH3CH3 F F CF3 C1		A-1138	Cl	F	CF <sub>3</sub>	CHF <sub>2</sub>	
A-1140		A-1139	CH <sub>3</sub>	F	CF <sub>3</sub>	CHF <sub>2</sub>	
A-1141 H F SCHF2 CHF2 C1  A-1142 F F SCHF2 CHF2 C1  A-1144 CH <sub>3</sub> F SCHF2 CHF2 C1  A-1144 CH <sub>3</sub> F SCHF2 CHF2 C1  A-1145 CH <sub>2</sub> CH <sub>3</sub> F SCHF2 CHF2 C1  A-1146 H F SCF <sub>3</sub> CHF <sub>2</sub> C1  A-1147 F F SCF <sub>3</sub> CHF <sub>2</sub> C1  A-1148 C1 F SCF <sub>3</sub> CHF <sub>2</sub> C1  A-1149 CH <sub>3</sub> F SCF <sub>3</sub> CHF <sub>2</sub> C1  A-1150 CH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> CHF <sub>2</sub> C1  A-1151 H F CCH <sub>2</sub> CH <sub>3</sub> F CHF <sub>2</sub> C1  A-1152 F F F CCH <sub>2</sub> CHF <sub>2</sub> C1  A-1153 C1 F CCH <sub>2</sub> CH <sub>2</sub> CHF <sub>2</sub> C1  A-1155 CH <sub>2</sub> CH <sub>3</sub> F CCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1156 H F CCH <sub>2</sub> CH <sub>3</sub> F CCHF <sub>2</sub> C1  A-1157 F CCH <sub>2</sub> CH <sub>3</sub> F CCH <sub>2</sub> CHF <sub>2</sub> C1  A-1158 C1 F CCF <sub>3</sub> CHF <sub>2</sub> C1  A-1159 CH <sub>3</sub> F CCF <sub>3</sub> CHF <sub>2</sub> C1  A-1159 CH <sub>3</sub> F CCF <sub>3</sub> CHF <sub>2</sub> C1  A-1160 CH <sub>2</sub> CH <sub>3</sub> F CCF <sub>3</sub> CHF <sub>2</sub> C1  A-1161 H F F CCF <sub>3</sub> CHF <sub>2</sub> C1  A-1162 F F F F CF <sub>3</sub> C1  A-1164 CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1165 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1166 H F F CF <sub>3</sub> C1  A-1166 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1167 CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1168 CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1169 CH <sub>3</sub> F F F CF <sub>3</sub> C1  A-1160 CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1160 CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1161 CH <sub>3</sub> F F F CF <sub>3</sub> C1  A-1162 CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1163 C1 F F CF <sub>3</sub> C1  A-1164 CH <sub>3</sub> F F F CF <sub>3</sub> C1  A-1165 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1166 CH <sub>3</sub> F F F CF <sub>3</sub> C1		A-1140	CH <sub>2</sub> CH <sub>3</sub>	F	CF <sub>3</sub>	CHF <sub>2</sub>	
A-1142 F SCHF2 CHF2 C1 A-1144 CH3 F SCHF2 CHF2 C1 A-1145 CH2CH3 F SCHF2 CHF2 C1 A-1146 H F SCF3 CHF2 C1 A-1147 F F SCF3 CHF2 C1 A-1148 C1 F SCF3 CHF2 C1 A-1149 CH3 F SCF3 CHF2 C1 A-1149 CH3 F SCF3 CHF2 C1 A-1150 CH2CH3 F SCF3 CHF2 C1 A-1151 H F F OCHF2 CHF2 C1 A-1152 F F OCHF2 CHF2 C1 A-1153 C1 F OCHF2 CHF2 C1 A-1155 CH2CH3 F OCHF2 CHF2 C1 A-1156 H F OCF3 CHF2 C1 A-1157 F F OCF3 CHF2 C1 A-1158 C1 F OCF3 CHF2 C1 A-1159 CH3 F OCF3 CHF2 C1 A-1159 CH3 F OCF3 CHF2 C1 A-1160 CH2CH3 F OCF3 CHF2 C1 A-1161 H F F F CF3 C1 A-1162 F F F F CF3 C1 A-1163 C1 F F F CF3 C1 A-1165 CH2CH3 F F CF3 C1 A-1165 CH2CH3 F F CF3 C1 A-1166 H F F CF3 C1 A-1160 CH2CH3 F CF3 C1 A-1160 CH2CH3 F CF3 C1 A-1160 CH3 F F CF3 C1 A-1160 CH3 F F CF3 C1 A-1160 CH3 F F CF3 C1 A-1160 CH3 F F CF3 C1 A-1160 CH3 F F CF3 C1 A-1160 CH3 F F CF3 C1 A-1160 CH3 F F CF3 C1 A-1160 CH3 F F CF3 C1 A-1160 CH3 F F CF3 C1 A-1160 CH3 F F CF3 C1 A-1160 CH3 F F CF3 C1 A-1160 CH3 F F CF3 C1 A-1160 CH3 F F CF3 C1 A-1160 CH3 F F CF3 C1 A-1160 CH3 F F CF3 C1 A-1160 CH3 F F CF3 C1 A-1160 CH3 F F CF3 C1	15	A-1141	H	F	SCHF <sub>2</sub>	CHF <sub>2</sub>	
A-1144 CH <sub>3</sub> F SCHF <sub>2</sub> CHF <sub>2</sub> C1 A-1145 CH <sub>2</sub> CH <sub>3</sub> F SCHF <sub>2</sub> CHF <sub>2</sub> C1 A-1146 H F SCF <sub>3</sub> CHF <sub>2</sub> C1 A-1147 F F F SCF <sub>3</sub> CHF <sub>2</sub> C1 A-1148 C1 F SCF <sub>3</sub> CHF <sub>2</sub> C1 A-1149 CH <sub>3</sub> F SCF <sub>3</sub> CHF <sub>2</sub> C1 A-1150 CH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> CHF <sub>2</sub> C1 A-1151 H F CCH <sub>2</sub> CH <sub>3</sub> F CHF <sub>2</sub> C1 A-1152 F F F OCHF <sub>2</sub> CHF <sub>2</sub> C1 A-1153 C1 F OCHF <sub>2</sub> CHF <sub>2</sub> C1 A-1155 CH <sub>2</sub> CH <sub>3</sub> F OCHF <sub>2</sub> CHF <sub>2</sub> C1 A-1156 H F OCHF <sub>2</sub> CHF <sub>2</sub> C1 A-1157 F F F OCHF <sub>2</sub> CHF <sub>2</sub> C1 A-1158 C1 F OCF <sub>3</sub> CHF <sub>2</sub> C1 A-1159 CH <sub>3</sub> F OCF <sub>3</sub> CHF <sub>2</sub> C1 A-1160 CH <sub>2</sub> CH <sub>3</sub> F OCF <sub>3</sub> CHF <sub>2</sub> C1 A-1161 H F F F CF <sub>3</sub> CH A-1162 F F F F CF <sub>3</sub> C1 A-1163 C1 F F CF <sub>3</sub> C1 A-1164 CH <sub>3</sub> F F F CF <sub>3</sub> C1 A-1165 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1 A-1166 H F F CF <sub>3</sub> C1 A-1166 H F F CF <sub>3</sub> C1 A-1166 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1 A-1166 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1 A-1166 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1 A-1166 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1 A-1166 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1 A-1166 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1 A-1166 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1 A-1166 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1 A-1166 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1 A-1166 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1 A-1166 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1 A-1166 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1 A-1166 CH <sub>2</sub> CH <sub>3</sub> F C1 C1 CF <sub>3</sub> C1 A-1166 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1 C1 CF <sub>3</sub> C1		A-1142	F	F	SCEF <sub>2</sub>	CHF <sub>2</sub>	
A-1145 CH <sub>2</sub> CH <sub>3</sub> F SCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1146 H F SCF <sub>3</sub> CHF <sub>2</sub> C1  A-1147 F F SCF <sub>3</sub> CHF <sub>2</sub> C1  A-1148 C1 F SCF <sub>3</sub> CHF <sub>2</sub> C1  A-1149 CH <sub>3</sub> F SCF <sub>3</sub> CHF <sub>2</sub> C1  A-1150 CH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> CHF <sub>2</sub> C1  A-1151 H F CCH <sub>2</sub> CH <sub>3</sub> F CCHF <sub>2</sub> C1  A-1152 F F F OCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1153 C1 F OCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1155 CH <sub>2</sub> CH <sub>3</sub> F OCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1156 H F OCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1157 F F OCF <sub>3</sub> CHF <sub>2</sub> C1  A-1158 C1 F OCF <sub>3</sub> CHF <sub>2</sub> C1  A-1159 CH <sub>3</sub> F OCF <sub>3</sub> CHF <sub>2</sub> C1  A-1160 CH <sub>2</sub> CH <sub>3</sub> F OCF <sub>3</sub> CHF <sub>2</sub> C1  A-1161 H F F F CF <sub>3</sub> C1  A-1162 F F F F CF <sub>3</sub> C1  A-1163 C1 F F F CF <sub>3</sub> C1  A-1165 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1166 H F F CF <sub>3</sub> C1  A-1166 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1166 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1166 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1166 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1		A-1143	Cl	F	SCHF <sub>2</sub>	CHF <sub>2</sub>	
A-1145 CH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> CHF <sub>2</sub> C1  A-1146 H F SCF <sub>3</sub> CHF <sub>2</sub> C1  A-1147 F F SCF <sub>3</sub> CHF <sub>2</sub> C1  A-1148 C1 F SCF <sub>3</sub> CHF <sub>2</sub> C1  A-1149 CH <sub>3</sub> F SCF <sub>3</sub> CHF <sub>2</sub> C1  A-1150 CH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> CHF <sub>2</sub> C1  A-1151 H F OCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1152 F F F OCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1153 C1 F OCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1154 CH <sub>3</sub> F OCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1155 CH <sub>2</sub> CH <sub>3</sub> F OCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1156 H F OCF <sub>3</sub> CHF <sub>2</sub> C1  A-1157 F F OCF <sub>3</sub> CHF <sub>2</sub> C1  A-1158 C1 F OCF <sub>3</sub> CHF <sub>2</sub> C1  A-1159 CH <sub>3</sub> F OCF <sub>3</sub> CHF <sub>2</sub> C1  A-1160 CH <sub>2</sub> CH <sub>3</sub> F OCF <sub>3</sub> CHF <sub>2</sub> C1  A-1161 H F F CF <sub>3</sub> C1  A-1162 F F F CF <sub>3</sub> C1  A-1163 C1 F F CF <sub>3</sub> C1  A-1164 CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1165 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1166 H F CCF <sub>3</sub> C1  A-1166 H F CCF <sub>3</sub> C1  A-1166 H F CCF <sub>3</sub> C1  A-1166 CH <sub>2</sub> CH <sub>3</sub> F CCF <sub>3</sub> C1  A-1166 CH <sub>2</sub> CH <sub>3</sub> F CCF <sub>3</sub> C1  A-1166 CH <sub>2</sub> CH <sub>3</sub> F CCF <sub>3</sub> C1		A-1144	CH <sub>3</sub>	F	SCHF <sub>2</sub>	CHF <sub>2</sub>	
A-1146 H F SCF <sub>3</sub> CHF <sub>2</sub> C1  A-1147 F F F SCF <sub>3</sub> CHF <sub>2</sub> C1  A-1148 C1 F SCF <sub>3</sub> CHF <sub>2</sub> C1  A-1149 CH <sub>3</sub> F SCF <sub>3</sub> CHF <sub>2</sub> C1  A-1150 CH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> CHF <sub>2</sub> C1  A-1151 H F CCH <sub>2</sub> CHF <sub>2</sub> C1  A-1152 F F F OCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1153 C1 F OCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1154 CH <sub>3</sub> F OCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1155 CH <sub>2</sub> CH <sub>3</sub> F OCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1156 H F OCF <sub>3</sub> CHF <sub>2</sub> C1  A-1157 F F OCF <sub>3</sub> CHF <sub>2</sub> C1  A-1158 C1 F OCF <sub>3</sub> CHF <sub>2</sub> C1  A-1159 CH <sub>3</sub> F OCF <sub>3</sub> CHF <sub>2</sub> C1  A-1160 CH <sub>2</sub> CH <sub>3</sub> F OCF <sub>3</sub> CHF <sub>2</sub> C1  A-1161 H F F CF <sub>3</sub> C1  A-1162 F F F F CF <sub>3</sub> C1  A-1163 C1 F F F CF <sub>3</sub> C1  A-1164 CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1165 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1166 H F F CF <sub>3</sub> C1  A-1166 H F CCF <sub>3</sub> CH <sub>2</sub> C1	20	A-1145	CH <sub>2</sub> CH <sub>3</sub>	F	SCHF <sub>2</sub>	CHF <sub>2</sub>	
A-1147 F F F F CF CF CF C C C C C C C C C C C		A-1146	H	F	SCF <sub>3</sub>		
A-1148 C1 F SCF <sub>3</sub> CHF <sub>2</sub> C1 A-1150 CH <sub>2</sub> CH <sub>3</sub> F SCF <sub>3</sub> CHF <sub>2</sub> C1 A-1151 H F OCHF <sub>2</sub> CHF <sub>2</sub> C1 A-1152 F F OCHF <sub>2</sub> CHF <sub>2</sub> C1 A-1153 C1 F OCHF <sub>2</sub> CHF <sub>2</sub> C1 A-1154 CH <sub>3</sub> F OCHF <sub>2</sub> CHF <sub>2</sub> C1 A-1155 CH <sub>2</sub> CH <sub>3</sub> F OCHF <sub>2</sub> CHF <sub>2</sub> C1 A-1157 F F OCF <sub>3</sub> CHF <sub>2</sub> C1 A-1157 F F OCF <sub>3</sub> CHF <sub>2</sub> C1 A-1158 C1 F OCF <sub>3</sub> CHF <sub>2</sub> C1 A-1159 CH <sub>3</sub> F OCF <sub>3</sub> CHF <sub>2</sub> C1 A-1160 CH <sub>2</sub> CH <sub>3</sub> F OCF <sub>3</sub> CHF <sub>2</sub> C1 A-1161 H F F F CF <sub>3</sub> C1 A-1162 F F F F CF <sub>3</sub> C1 A-1163 C1 F F CF <sub>3</sub> C1 A-1164 CH <sub>3</sub> F F CF <sub>3</sub> C1 A-1165 CH <sub>2</sub> CH <sub>3</sub> F CF <sub>3</sub> C1 A-1166 H F F CF <sub>3</sub> C1 CF <sub>3</sub> C1 CF <sub>3</sub> C1 CF <sub>3</sub> C1 CF <sub>3</sub> C1 CF <sub>3</sub> C1 CF <sub>3</sub> C1 CF <sub>3</sub> C1 CF <sub>3</sub> C1 CF <sub>3</sub> C1 CF <sub>3</sub> C1 CF <sub>3</sub> C1 CF <sub>3</sub> C1 CF <sub>3</sub> C1 CF <sub>3</sub> C1 CF <sub>3</sub> C1 CF <sub>3</sub> C1 CF <sub>3</sub> C1 CF <sub>3</sub> C1 CF <sub>3</sub> C1		A-1147	F	F	SCF <sub>3</sub>	CHF <sub>2</sub>	
25 A-1149 CH <sub>3</sub> F SCF <sub>3</sub> CHF <sub>2</sub> C1 A-1151 H F OCHF <sub>2</sub> CHF <sub>2</sub> C1 A-1152 F F OCHF <sub>2</sub> CHF <sub>2</sub> C1 A-1153 C1 F OCHF <sub>2</sub> CHF <sub>2</sub> C1 A-1155 CH <sub>2</sub> CH <sub>3</sub> F OCHF <sub>2</sub> CHF <sub>2</sub> C1 A-1155 CH <sub>2</sub> CH <sub>3</sub> F OCHF <sub>2</sub> CHF <sub>2</sub> C1 A-1156 H F OCF <sub>3</sub> CHF <sub>2</sub> C1 A-1157 F F OCF <sub>3</sub> CHF <sub>2</sub> C1 A-1158 C1 F OCF <sub>3</sub> CHF <sub>2</sub> C1 A-1159 CH <sub>3</sub> F OCF <sub>3</sub> CHF <sub>2</sub> C1 A-1159 CH <sub>3</sub> F OCF <sub>3</sub> CHF <sub>2</sub> C1 A-1160 CH <sub>2</sub> CH <sub>3</sub> F OCF <sub>3</sub> CHF <sub>2</sub> C1 A-1161 H F F CF <sub>3</sub> C1 A-1162 F F F CF <sub>3</sub> C1 A-1163 C1 F F CF <sub>3</sub> C1 A-1164 CH <sub>3</sub> F F CF <sub>3</sub> C1 A-1165 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1 A-1166 H F F CF <sub>3</sub> C1 A-1166 H F F CF <sub>3</sub> C1 A-1166 H F CCF <sub>3</sub> C1 C1 C5 C5 C1 C6 C5 C1 C7 C7 C1 C7 C1 C7 C7 C1 C7 C7 C1 C7 C1 C7 C7 C1 C7 C1 C7 C7 C1 C7 C1 C7 C7 C1 C7 C7 C1 C7 C1 C7 C7 C1 C7 C1 C7 C7 C1		A-1148	Cl	F	SCF <sub>3</sub>	CHF <sub>2</sub>	
A-1150	~-	A-1149	CH <sub>3</sub>	. F	SCF <sub>3</sub>		
A-1151 H F OCH 2 CHF2 C1  A-1152 F F OCHF2 CHF2 C1  A-1153 C1 F OCHF2 CHF2 C1  A-1154 CH3 F OCHF2 CHF2 C1  A-1155 CH2CH3 F OCHF2 CHF2 C1  A-1156 H F OCF3 CHF2 C1  A-1157 F F OCF3 CHF2 C1  A-1158 C1 F OCF3 CHF2 C1  A-1159 CH3 F OCF3 CHF2 C1  A-1160 CH2CH3 F OCF3 CHF2 C1  A-1161 H F F CF3 C1  A-1162 F F F CF3 C1  A-1163 C1 F F CF3 C1  A-1164 CH3 F F CF3 C1  A-1165 CH2CH3 F C1  A-1166 H F C1  A-1166 H F C1  C1  C2  C3  C4  C4  C5  C6  C6  C6  C7  C6  C7  C7  C7  C7  C7	25	A-1150	CH <sub>2</sub> CH <sub>3</sub>	F	SCF <sub>3</sub>	CHF <sub>2</sub>	
A-1152 F F CH2 CHF2 C1  A-1153 C1 F OCHF2 CHF2 C1  A-1154 CH3 F OCHF2 CHF2 C1  A-1155 CH2CH3 F OCHF2 CHF2 C1  A-1156 H F OCF3 CHF2 C1  A-1157 F F OCF3 CHF2 C1  A-1158 C1 F OCF3 CHF2 C1  A-1159 CH3 F OCF3 CHF2 C1  A-1160 CH2CH3 F OCF3 CHF2 C1  A-1161 H F F CF3 C1  A-1162 F F F CF3 C1  A-1163 C1 F F CF3 C1  A-1164 CH3 F F CF3 C1  A-1165 CH2CH3 F CF3 C1  A-1165 CH2CH3 F CF3 C1  A-1166 H F CF3 C1  A-1166 CF3 C1  A-1166 CF3 C1  A-1166 CF3 C1  A-1166 CF3 C1  A-1166 CF3 C1  A-1166 CF3 C1  A-1166 CF3 C1  A-1166 CF3 C1		A-1151	H	F	OCHF <sub>2</sub>	CHF <sub>2</sub>	
A-1153 CT F OCH <sub>2</sub> CH <sub>2</sub> C1  A-1154 CH <sub>3</sub> F OCH <sub>2</sub> CH <sub>2</sub> C1  A-1155 CH <sub>2</sub> CH <sub>3</sub> F OCH <sub>2</sub> CH <sub>2</sub> C1  A-1156 H F OCF <sub>3</sub> CHF <sub>2</sub> C1  A-1157 F F OCF <sub>3</sub> CHF <sub>2</sub> C1  A-1158 C1 F OCF <sub>3</sub> CHF <sub>2</sub> C1  A-1159 CH <sub>3</sub> F OCF <sub>3</sub> CHF <sub>2</sub> C1  A-1160 CH <sub>2</sub> CH <sub>3</sub> F OCF <sub>3</sub> CHF <sub>2</sub> C1  A-1161 H F F F CF <sub>3</sub> C1  A-1162 F F F CF <sub>3</sub> C1  A-1164 CH <sub>3</sub> F F F CF <sub>3</sub> C1  A-1165 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1166 H F CCF <sub>3</sub> C1  C1  C2  C3  C4  C5  C6  C6  C7  C7  C7  C7  C7  C7  C7  C7		A-1152	F	F	OCHF <sub>2</sub>		
A-1154 CH <sub>3</sub> F OCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1155 CH <sub>2</sub> CH <sub>3</sub> F OCHF <sub>2</sub> CHF <sub>2</sub> C1  A-1156 H F OCF <sub>3</sub> CHF <sub>2</sub> C1  A-1157 F F OCF <sub>3</sub> CHF <sub>2</sub> C1  A-1158 C1 F OCF <sub>3</sub> CHF <sub>2</sub> C1  A-1159 CH <sub>3</sub> F OCF <sub>3</sub> CHF <sub>2</sub> C1  A-1160 CH <sub>2</sub> CH <sub>3</sub> F OCF <sub>3</sub> CHF <sub>2</sub> C1  A-1161 H F F CF <sub>3</sub> C1  A-1162 F F F CF <sub>3</sub> C1  A-1163 C1 F F CF <sub>3</sub> C1  A-1164 CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1165 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1166 H F CCF <sub>3</sub> C1		A-1153	Cl	F	OCHF <sub>2</sub>	CHF <sub>2</sub>	
A-1155	30	A-1154	CH <sub>3</sub>	F	OCHF <sub>2</sub>		
A-1156 H F OCF3 CHF2 C1  A-1157 F F OCF3 CHF2 C1  A-1158 C1 F OCF3 CHF2 C1  A-1159 CH3 F OCF3 CHF2 C1  A-1160 CH2CH3 F OCF3 CHF2 C1  A-1161 H F F CF3 C1  A-1162 F F F F CF3 C1  A-1163 C1 F F F CF3 C1  A-1164 CH3 F F CF3 C1  A-1165 CH2CH3 F CF3 C1  A-1166 H F CCF3 C1  CCF3 C1  CCF3 C1  CCF3 C1  CCF3 C1  CCF3 C1  CCF3 C1  CCF3 C1  CCF3 C1  CCF3 C1  CCF3 C1  CCF3 C1  CCF3 C1		A-1155	CH <sub>2</sub> CH <sub>3</sub>	F	OCHF <sub>2</sub>		
A-1157 F F OCF3 CHF2 C1  A-1158 C1 F OCF3 CHF2 C1  A-1159 CH3 F OCF3 CHF2 C1  A-1160 CH2CH3 F OCF3 CHF2 C1  A-1161 H F F CF3 C1  A-1162 F F F F CF3 C1  A-1163 C1 F F CF3 C1  A-1164 CH3 F F CF3 C1  A-1165 CH2CH3 F F CF3 C1  A-1166 H F CCF3 C1  CCF3 C1  CCF3 C1  CCF3 C1  CCF3 C1  CCF3 C1  CCF3 C1  CCF3 C1  CCF3 C1  CCF3 C1  CCF3 C1  CCF3 C1  CCF3 C1  CCF3 C1  CCF3 C1  CCF3 C1  CCF3 C1  CCF3 C1		A-1156	H	F	OCF <sub>3</sub>		
A-1158 C1 F OCF3 CHF2 C1  A-1159 CH3 F OCF3 CHF2 C1  A-1160 CH2CH3 F OCF3 CHF2 C1  A-1161 H F F CF3 C1  A-1162 F F F CF3 C1  A-1163 C1 F F CF3 C1  A-1164 CH3 F F CF3 C1  A-1165 CH2CH3 F F CF3 C1  A-1166 H F CCF3 C1  C1  C1  C2  C3  C4  C5  C6  C7  C1  C7  C7  C1  C7  C7  C1  C7  C7		A-1157	F	F	OCF <sub>3</sub>		
A-1159 CH <sub>3</sub> F OCF <sub>3</sub> CHF <sub>2</sub> Cl  A-1160 CH <sub>2</sub> CH <sub>3</sub> F OCF <sub>3</sub> CHF <sub>2</sub> Cl  A-1161 H F F CF <sub>3</sub> Cl  A-1162 F F F F CF <sub>3</sub> Cl  A-1163 Cl F F F CF <sub>3</sub> Cl  A-1164 CH <sub>3</sub> F F CF <sub>3</sub> Cl  A-1165 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> Cl  A-1166 H F CCF <sub>3</sub> Cl		A-1158	Cl	F	OCF <sub>3</sub>		
A-1160 CH <sub>2</sub> CH <sub>3</sub> F CF <sub>3</sub> C1  A-1161 H F F CF <sub>3</sub> C1  A-1162 F F F CF <sub>3</sub> C1  A-1163 C1 F F CF <sub>3</sub> C1  A-1164 CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1165 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1166 H F C1 CF <sub>3</sub> C1		A-1159	CH <sub>3</sub>	F	OCF <sub>3</sub>		
A-1161 H F F CF3 C1  A-1162 F F F CF3 C1  A-1163 C1 F F CF3 C1  A-1164 CH3 F F CF3 C1  A-1165 CH2CH3 F F CF3 C1  A-1166 H F C1 CF3 C1		A-1160	CH <sub>2</sub> CH <sub>3</sub>	F	OCF <sub>3</sub>		
A-1162 F F CF <sub>3</sub> C1  A-1163 C1 F F CF <sub>3</sub> C1  A-1164 CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1165 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1166 B F C1 CF <sub>3</sub> C1		A-1161	H	F	F		
A-1163 C1 F F CF <sub>3</sub> C1  A-1164 CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1165 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1166 B F C1 CF <sub>3</sub> C1		A-1162	F	F	F		
A-1164 CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1165 CH <sub>2</sub> CH <sub>3</sub> F F CF <sub>3</sub> C1  A-1166 H F C1 CF <sub>3</sub> C1			Cl	F	F	CF <sub>3</sub>	
A-1165 CH <sub>2</sub> CH <sub>3</sub> F Cl CF <sub>3</sub> Cl		A-1164	CH <sub>3</sub>	F	F	CF <sub>3</sub>	
A5 A-1166 B C C	4!	A-1165	CH <sub>2</sub> CH <sub>3</sub>	F	F	CF <sub>3</sub>	
45   CF <sub>2</sub>   C1			H	F	Cl		
[A-116/ F		5 A-1167	F	F	Cl	CF <sub>3</sub>	Cl
A-1168 C1 F C1 CF <sub>3</sub> C1			Cl	F	Cl	CF <sub>3</sub>	C1

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	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R12	R <sup>13</sup>
	A-1169	CH <sub>3</sub>	F	Cl	CF <sub>3</sub>	Cl
	A-1170	CH <sub>2</sub> CH <sub>3</sub>	F	Cl	CF <sub>3</sub>	CI
5	A-1171	H	F	CHF2	CF <sub>3</sub>	Cl
	A-1172	F	F	CHF2	CF <sub>3</sub>	Cl
	A-1173	Cl	F	CHF2	CF <sub>3</sub>	Cl
	A-1174	CH <sub>3</sub>	F	CHF2	CF <sub>3</sub>	Cl
	A-1175	CH <sub>2</sub> CH <sub>3</sub>	F	CHF2	CF <sub>3</sub>	Cl
10	A-1176	Ħ	F	CF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-1177	F	F	CF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-1178	Cl	F	CF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-1179	CH <sub>3</sub>	F	CF <sub>3</sub>	CF <sub>3</sub>	Cl
15	A-1180	CH2CH3	F	CF <sub>3</sub>	CF3	Cl
	A-1181	Н	F	SCHF <sub>2</sub>	CF <sub>3</sub>	Cl
	A-1182	F	F	SCHF <sub>2</sub>	CF <sub>3</sub>	Cl
	A-1183	Cl	F	SCHF <sub>2</sub>	CF <sub>3</sub>	Cl
20	A-1184	CH <sub>3</sub>	F	SCHF <sub>2</sub>	CF <sub>3</sub>	Cl
	A-1185	СH <sub>2</sub> CH <sub>3</sub>	F	SCHF <sub>2</sub>	CF <sub>3</sub>	Cl
	A-1186	H	F	SCF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-1187	F	F	SCF <sub>3</sub>	CF <sub>3</sub>	Cl
25	A-1188	Cl	F	SCF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-1189	CH <sub>3</sub>	F	SCF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-1190	CH <sub>2</sub> CH <sub>3</sub>	F	SCF <sub>3</sub>	CF <sub>3</sub>	CJ
	A-1191	Ħ	F	OCHF <sub>2</sub>	CF <sub>3</sub>	Cl
	A-1192	F	F	OCHF <sub>2</sub>	CF <sub>3</sub>	Cl
30	A-1193	Cl	F	OCHF <sub>2</sub>	CF <sub>3</sub>	Cl
	A-1194	CH <sub>3</sub>	F	OCHF <sub>2</sub>	CF <sub>3</sub>	Cl
	A-1195	CH <sub>2</sub> CH <sub>3</sub>	F	OCHF <sub>2</sub>	CF <sub>3</sub>	Cl
	A-1196	H	F	OCF <sub>3</sub>	CF <sub>3</sub>	Cl
35	A-1197	F	F	OCF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-1198	Cl	F	OCF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-1199	CH <sub>3</sub>	F	OCF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-1200	CH <sub>2</sub> CH <sub>3</sub>	F	OCF <sub>3</sub>	CF <sub>3</sub>	Cl
40	A-1201	H	Cl	F	H	H
•	A-1202	F	Cl	F	H	H
	A-1203	Cl	Cl	F	Н	н
	A-1204	CH3	Cl	F	H	Н
45	A-1205	CH <sub>2</sub> CH <sub>3</sub>	Cl	F	H	H
43	A-1206	H	Cl	Cl	H	H
	A-1207	F	Cl	Cl	H	H





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Г	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R <sup>12</sup>	R <sup>13</sup>	_
L	A-1208	Cl	Cl	Cl	H	H	4
ŀ	A-1209	CH <sub>3</sub>	Cl	Cl	H	H	4
L	A-1210	CH <sub>2</sub> CH <sub>3</sub>	Cl	Cl	H	H	_
	A-1211	н	Cl	CHF2	H	H	
	A-1212	F	Cl	CHF2	H	H	_
	A-1213	Cl	Cl	CHF2	H	H	
	A-1214	CH <sub>3</sub>	Cl	CHF2	H	H	_
10	A-1215	CH <sub>2</sub> CH <sub>3</sub>	Cl	CHF2	H	H	_
	A-1216	н	Cl	CF <sub>3</sub>	H	H	_
	A-1217	F	Cl	CF <sub>3</sub>	H	H	_
	A-1218	Cl	Cl	CF <sub>3</sub>	Н	H	_
15	A-1219	CH <sub>3</sub>	Cl	CF <sub>3</sub>	H	H	_
	A-1220	CH <sub>2</sub> CH <sub>3</sub>	Cl	CF <sub>3</sub>	H	H	_
	A-1221	H	Cl	SCHF <sub>2</sub>	H	H	_
	A-1222	F	Cl	SCHF <sub>2</sub>	H	H	_
20	A-1223	Cl	Cl	SCHF <sub>2</sub>	H	H	$\dashv$
	A-1224	CH <sub>3</sub>	Cl	SCHF <sub>2</sub>	H	H	
	A-1225	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCHF <sub>2</sub>	H	H	
	A-1226	H	Cl	SCF <sub>3</sub>	. Н	H	
25	A-1227	F	Cl	SCF <sub>3</sub>	H	H	
23	A-1228	Cl	Cl	SCF <sub>3</sub>	H	H	
	A-1229	CH <sub>3</sub>	Cl	SCF <sub>3</sub>	H	H	
	A-1230	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCF <sub>3</sub>	H	H	
	A-1231	Н	Cl	OCHF <sub>2</sub>	H	H	
30	A-1232	F	Cl	OCHF <sub>2</sub>	H	H	
	A-1233	Cl	Cl	OCHF <sub>2</sub>	H	H	
	A-1234	CH <sub>3</sub>	Cl	OCHF <sub>2</sub>	H	H	
	A-1235	CH <sub>2</sub> CH <sub>3</sub>	Cl	OCHF <sub>2</sub>	H	H	
3	5 A-1236	H	Cl	OCF <sub>3</sub>	H	н	
	A-1237	F	C1	OCF <sub>3</sub>	H		
	A-1238	Cl	C1	OCF <sub>3</sub>	H	H	
	A-1239	CH <sub>3</sub>	Cl	OCF <sub>3</sub>	H	H	
4	O A-1240	CH <sub>2</sub> CH <sub>3</sub>	Cl	OCF <sub>3</sub>	H	H	
	A-1241	H	C1	F	F	H	
	A-1242	F	Cl	F	F	Н	
	A-1243	Cl	cl	F	F	H H	
	A-1244	CH <sub>3</sub>	Cl	F	F	н	
4	A-1245	CH <sub>2</sub> CH <sub>3</sub>	Cl	F	F	H	
	A-1246	H	Cl	cl	F	, H	
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l	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R <sub>12</sub>	R <sup>13</sup>
	A-1247	F	Cl	Cl	F	H
	A-1248	Cl	Cl	Cl	F	Ħ
5	A-1249	CH <sub>3</sub>	Cl	Cl	F	H
ĺ	A-1250	CH <sub>2</sub> CH <sub>3</sub>	Cl	Cl	F	H
Ī	A-1251	H	Cl	CHF2	F	H
	A-1252	F	Cl	CHF2	F	H
	A-1253	C1	Cl	CHF2	F	H
10	A-1254	CH <sub>3</sub>	Cl	CHF2	F	H
	A-1255	CH <sub>2</sub> CH <sub>3</sub>	Cl	CHF2	F	H
	A-1256	H	Cl	CF <sub>3</sub>	F	H
	A-1257	F	Cl	CF <sub>3</sub>	F	H
15	A-1258	Cl	Cl	CF <sub>3</sub>	F	H
	A-1259	CH <sub>3</sub>	Cl	CF <sub>3</sub>	F	Ħ
	A-1260	CH <sub>2</sub> CH <sub>3</sub>	Cl	CF <sub>3</sub>	F	н
	A-1261	H	Cl	SCHF <sub>2</sub>	F	B
20	A-1262	F	Cl	SCHF <sub>2</sub>	F	H
	A-1263	Cl	Cl	SCHF <sub>2</sub>	F	H
	A-1264	CH <sub>3</sub>	Cl	SCHF <sub>2</sub>	F	H
	A-1265	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCHF <sub>2</sub>	F	H
25	A-1266	н	Cl	SCF <sub>3</sub>	F	H
	A-1267	F	Cl	SCF <sub>3</sub>	F	Ħ
	A-1268	Cl	Cl	SCF <sub>3</sub>	F	H
	A-1269	CH <sub>3</sub>	Cl	SCF <sub>3</sub>	F	H
	A-1270	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCF <sub>3</sub>	F	H
30	A-1271	Н	Cl	OCHF <sub>2</sub>	F	H
	A-1272	F	Cl	OCHF <sub>2</sub>	F	Н
	A-1273	Cl	Cl	OCHF <sub>2</sub>	F	H
	A-1274	CH3	Cl	OCHP <sub>2</sub>	P	H
35	A-1275	CH <sub>2</sub> CH <sub>3</sub>	Cl	OCHF <sub>2</sub>	F	H
	A-1276	H	Cl	OCF <sub>3</sub>	F	日.
	A-1277	F	Cl	OCF <sub>3</sub>	F	H
	A-1278	Cl	Cl	OCF <sub>3</sub>	F	Н
40	A-1279	CH <sub>3</sub>	Cl	OCF <sub>3</sub>	F	H
•	A-1280	CH <sub>2</sub> CH <sub>3</sub>	Cl	OCF <sub>3</sub>	F	H
	A-1281	н	Cl	F	Cl	Ħ
	A-1282	P	Cl	F	Cl	H
a =	A-1283	Cl	Cl	F	Cl	В
45	A-1284	CH <sub>3</sub>	Cl	F	Cl	H
	A-1285	CH <sub>2</sub> CH <sub>3</sub>	Cl	F	Cl	Ħ.





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F	No.	R <sup>1</sup>	R <sup>2</sup>	Rll	R12	R <sup>13</sup>
	A-1286	H	Cl	Cl	Cl	H
1	A-1287	F	Cl	Cl	Cl	н
5	A-1288	Cl	Cl	Cl	Cl	H
	A-1289	CH <sub>3</sub>	Cl	Cl	C1	H
	A-1290	CH <sub>2</sub> CH <sub>3</sub>	Cl	Cl	Cl	H
	A-1291	н	Cl	CHF2	Cl	H
	A-1292	F	Cl	CHF2	CI	H
10	A-1293	Cl	Cl	CHF2	Cl	H
	A-1294	CH <sub>3</sub>	Cl	CHF2	Cl	H
	A-1295	CH <sub>2</sub> CH <sub>3</sub>	Cl	CHF2	Cl	H
	A-1296	H	Cl	CF <sub>3</sub>	Cl	H
15	A-1297	F	Cl	CF <sub>3</sub>	Cl	H
	A-1298	C1	Cl	CF <sub>3</sub>	Cl	H
	A-1299	CH <sub>3</sub>	Cl	CF <sub>3</sub>	Cl	H
	A-1300	CH <sub>2</sub> CH <sub>3</sub>	Cl	CF <sub>3</sub>	Cl	H
20	A-1301	H	Cl	SCHF <sub>2</sub>	Cl	H
	A-1302	F	Cl	SCHF <sub>2</sub>	Cl	H
	A-1303	Cl	Cl	SCHF <sub>2</sub>	Cl	H
	A-1304	CH <sub>3</sub>	cl	SCHF <sub>2</sub>	Cl	H
	A-1305	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCHF <sub>2</sub>	Cl ·	H
25	A-1306	H	Cl	SCF <sub>3</sub>	Cl	н
	A-1307	F	Cl	SCF <sub>3</sub>	Cl	H
	A-1308	C1	Cl	SCF <sub>3</sub>	Cl	H
	A-1309	CH <sub>3</sub>	Cl	SCF <sub>3</sub>	Cl	H
30	A-1310	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCF <sub>3</sub>	Cl	H
	A-1311	H	Cl	OCHF <sub>2</sub>	Cl	H
	A-1312	F	Cl	OCHF <sub>2</sub>	Cl	H
	A-1313	Cl	Cl	OCHF <sub>2</sub>	Cl	H
35	A-1314	CH <sub>3</sub>	Cl	OCEF <sub>2</sub>	Cl	H
	A-1315	CH <sub>2</sub> CH <sub>3</sub>	Cl	OCHF <sub>2</sub>	Cl	H
	A-1316	н	Cl	OCF <sub>3</sub>	Cl	H
	A-1317	F	Cl	OCF <sub>3</sub>	Cl	H
40	A-1318	Cl	Cl	OCF <sub>3</sub>	Cl	H
	A-1319	CH <sub>3</sub>	C1	OCF <sub>3</sub>	Cl	H
	A-1320	CH <sub>2</sub> CH <sub>3</sub>	Cl	OCF <sub>3</sub>	Cl	H
	A-1321	н	Cl	F	CHF <sub>2</sub>	н
	A-1322	F	Cl	F	CHF <sub>2</sub>	H
4		Cl	Cl	F	CHF <sub>2</sub>	H
	A-1324	CH <sub>3</sub>		F	CHF <sub>2</sub>	H



2.2

-	No.	R <sup>1</sup>	R <sup>2</sup>	R11	R <sup>12</sup>	R <sup>13</sup>
	A-1325	CH2CH3	Cl	P	CHF <sub>2</sub>	В
	A-1326	H	cl	Cl	CHF <sub>2</sub>	н
5	A-1327	F	Cl	Cl	CHF <sub>2</sub>	H
	A-1328	Cl	Cl	Cl	CHF <sub>2</sub>	н
1	A-1329	CH <sub>3</sub>	Cl	C1	CHF <sub>2</sub>	Н
1	A-1330	CH <sub>2</sub> CH <sub>3</sub>	Cl	Cl	CHF <sub>2</sub>	H
	A-1331	H	Cl	CHF2	CHF <sub>2</sub>	H
10	A-1332	F	Cl	CHF2	CHF <sub>2</sub>	H
	A-1333	Cl	Cl	CHF2	CHF <sub>2</sub>	H
	A-1334	CH3	Cl	CHF2	CHF <sub>2</sub>	H
	A-1335	СH <sub>2</sub> CH <sub>3</sub>	Cl	CHF2	CHF <sub>2</sub>	H
15	A-1336	Н	Cl	CF <sub>3</sub>	CHF <sub>2</sub>	Ħ
	A-1337	F	C1	CF <sub>3</sub>	CHF <sub>2</sub>	Н
	A-1338	Cl	Cl	CF <sub>3</sub>	CHF <sub>2</sub>	H
	A-1339	CH <sub>3</sub>	Cl	CF <sub>3</sub>	CHF <sub>2</sub>	H
20	A-1340	CH <sub>2</sub> CH <sub>3</sub>	Cl	CF <sub>3</sub>	CHF <sub>2</sub>	H
	A-1341	H	Cl	SCHF <sub>2</sub>	CHF <sub>2</sub>	Ĥ
	A-1342	F	Cl	SCHF <sub>2</sub>	CHF2	H
	A-1343	Cl	C1	SCHF <sub>2</sub>	CHF <sub>2</sub>	H
25	A-1344	CH <sub>3</sub>	Cl	SCHF <sub>2</sub>	CHF <sub>2</sub>	H
23	A-1345	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCHF <sub>2</sub>	CHF <sub>2</sub>	H
	A-1346	H	Cl	SCF <sub>3</sub>	CHF <sub>2</sub>	H
	A-1347	F	Cl	SCF <sub>3</sub>	CHF <sub>2</sub>	H
	A-1348	Cl	Cl	SCF <sub>3</sub>	CHF <sub>2</sub>	Ħ
30	A-1349	CH <sub>3</sub>	C1	SCF <sub>3</sub>	CHF <sub>2</sub>	Ħ
	A-1350	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCF <sub>3</sub>	CHF <sub>2</sub>	H
	A-1351	Н	Cl .	OCHF <sub>2</sub>	CHF <sub>2</sub>	Ħ
	A-1352	F	Cl	OCHF <sub>2</sub>	CHF <sub>2</sub>	H
35	A-1353	Cl	Cl	OCHF <sub>2</sub>	CHF <sub>2</sub>	H
	A-1354	CH <sub>3</sub>	Cl	OCHF <sub>2</sub>	CHF <sub>2</sub>	Ħ
	A-1355	CH <sub>2</sub> CH <sub>3</sub>	Cl	OCHF <sub>2</sub>	CHF <sub>2</sub>	Ħ
	A-1356	H	Cl	OCF <sub>3</sub>	CHF <sub>2</sub>	H
40	A-1357	F	Cl	OCF <sub>3</sub>	CHF <sub>2</sub>	Ħ
-	A-1358	Cl	Cl	OCF <sub>3</sub>	CHF <sub>2</sub>	Ħ
	A-1359	CH3	Cl	OCF <sub>3</sub>	CHP <sub>2</sub>	Ħ
	A-1360	CH <sub>2</sub> CH <sub>3</sub>	Cl	OCF <sub>3</sub>	CHF <sub>2</sub>	H
AF	A-1361	H	Cl	F	CF <sub>3</sub>	Ħ
45	A-1362	F	Cl	F	CF <sub>3</sub>	H
	A-1363	Cl	Cl	F	CF <sub>3</sub>	Ħ
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ſ	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R <sup>12</sup>	R13
t	A-1364	CH <sub>3</sub>	C1	F	CF <sub>3</sub>	н
t	A-1365	CH <sub>2</sub> CH <sub>3</sub>	Cl	F	CF <sub>3</sub>	н
5	A-1366	Н	Cl	C1	CF <sub>3</sub>	Н
- P [	A-1367	F	Cl	cl	CF <sub>3</sub>	H
	A-1368	Cl	C1	Cl	CF <sub>3</sub>	H
	A-1369	CH <sub>3</sub>	Cl	Cl	CF <sub>3</sub>	H
	A-1370	CH2CH3	Cl	Cl	CF <sub>3</sub>	H
10	A~1371	H	Cl	CHF2	CF3	H
	A-1372	F	Cl	CHF2	CF <sub>3</sub>	Ħ
	A-1373	Cl	Cl	CHF2	CF <sub>3</sub>	H
	A-1374	CH <sub>3</sub>	Cl	CHF2	CF <sub>3</sub>	H
15	A-1375	CH <sub>2</sub> CH <sub>3</sub>	Cl	CHF2	CF <sub>3</sub>	H
	A-1376	Н	Cl	CF <sub>3</sub>	CF <sub>3</sub>	Н
	A-1377	F	Cl	CF <sub>3</sub>	CF <sub>3</sub>	Н
	A-1378	C1	Cl	CF <sub>3</sub>	CF <sub>3</sub>	Н
20	A-1379	CH <sub>3</sub>	Cl	CF <sub>3</sub>	CF <sub>3</sub>	H
	A-1380	CH <sub>2</sub> CH <sub>3</sub>	Cl	CF <sub>3</sub>	CF3	н
	A-1381	Н	Cl	SCHF <sub>2</sub>	CF <sub>3</sub>	H
	A-1382	F	Cl	SCHF <sub>2</sub>	CF <sub>3</sub>	H
	A-1383	Cl	Cl	SCHF <sub>2</sub>	CF <sub>3</sub>	Н
25	A-1384	CH <sub>3</sub>	Cl	SCHF <sub>2</sub>	CF <sub>3</sub>	H
	A-1385	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCHF <sub>2</sub>	CF <sub>3</sub>	н
	A-1386	H	Cl	SCF <sub>3</sub>	CF <sub>3</sub>	Н
	A-1387	F	Cl	SCF <sub>3</sub>	CF <sub>3</sub>	H
30	A-1388	C1	C1	SCF <sub>3</sub>	CF <sub>3</sub>	H
	A-1389	CH <sub>3</sub>	Cl	SCF <sub>3</sub>	CF <sub>3</sub>	H
	A-1390	CH <sub>2</sub> CH <sub>3</sub>	C1	SCF <sub>3</sub>	CF <sub>3</sub>	H
	A-1391	н	Cl	OCHF <sub>2</sub>	CF <sub>3</sub>	H
35	A-1392	F	Cl	OCHF <sub>2</sub>	CF <sub>3</sub>	Н
	A-1393	Cl	Cl	OCHF <sub>2</sub>	CF <sub>3</sub>	H
	A-1394	CH <sub>3</sub>	Cl	OCHF <sub>2</sub>	CF <sub>3</sub>	H
	A-1395	CH <sub>2</sub> CH <sub>3</sub>	Cl	OCHF <sub>2</sub>	CF <sub>3</sub>	Ħ
40	A-1396	H	Cl	OCF <sub>3</sub>	CF <sub>3</sub>	H
	A-1397	F	Cl	OCF <sub>3</sub>	CF <sub>3</sub>	H
	A-1398	Cl	Cl	OCF <sub>3</sub>	CF <sub>3</sub>	H
	A-1399	CH <sub>3</sub>	Cl	OCF <sub>3</sub>	CF <sub>3</sub>	H
	A-1400	CH <sub>2</sub> CH <sub>3</sub>	Cl	OCF <sub>3</sub>	CF <sub>3</sub>	H
45	A-1401	н	Cl	F	H	F
	A-1402	F		F	H	F

t				-11		
	No.	R <sup>1</sup>	R <sup>2</sup>			R <sup>13</sup>
	A-1403	Cl	Cl		H	F
	A-1404	CH <sub>3</sub>	Cl	F	Ħ	F
5	A-1405	CH <sub>2</sub> CH <sub>3</sub>	cl	F	н	F
	A-1406	H	Cl	Cl	H	F
	A-1407	F	Cl	Cl	H	F
	A-1408	Cl	Cl	Cl	H	F
7.0	A-1409	CH3	Cl	Cl	H	F
10	A-1410	CH <sub>2</sub> CH <sub>3</sub>	Cl	Cl	H	F
	A-1411	R	Cl	CHF2	H	F
	A-1412	F	Cl	CHF2	Ħ	F
j	A-1413	CJ	Cl	CHF2	H	F
15	A-1414	CH <sub>3</sub>	Cl	CHF2	H	F
	A-1415	CH <sub>2</sub> CH <sub>3</sub>	Cl	CHF2	H	F
	A-1416	H	Cl	CF <sub>3</sub>	H	F
	A-1417	F	Cl	CF <sub>3</sub>	H	F
20	A-1418	Cl	Cl	CF <sub>3</sub>	Ħ	F
	A-1419	CH3	C1	CF <sub>3</sub>	Ħ	F
	A-1420	CH <sub>2</sub> CH <sub>3</sub>	Cl	CF <sub>3</sub>	H	F
	A-1421	H	Cl	SCHF <sub>2</sub>	H	F
25	A-1422	F	Cl	SCHF <sub>2</sub>	H	F
	A-1423	Cl	Cl	SCHF <sub>2</sub>	Ħ	F
	A-1424	CH3	Cl	SCHF <sub>2</sub>	H	F
	A-1425	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCHF <sub>2</sub>	Ħ	F
	A-1426	H	Cl	SCF <sub>3</sub>	H	F .
30	A-1427	F	Cl	SCF <sub>3</sub>	Ħ	F
	A-1428	Cl	Cl	SCF <sub>3</sub>	H	F
	A-1429	CH <sub>3</sub>	Cl	SCF <sub>3</sub>	H	F
	A-1430	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCF <sub>3</sub>	H	F
35	A-1431	H	Cl	OCHF <sub>2</sub>	H	F
	A-1432	F	Cl	OCHF <sub>2</sub>	Ħ	F
	A-1433	Cl	Cl	OCHF <sub>2</sub>	Ħ	F
	A-1434	CH <sub>3</sub>	Cl	OCHF <sub>2</sub>	H	F
40	A-1435	CH <sub>2</sub> CH <sub>3</sub>	Cl	OCEF <sub>2</sub>	H	F
	A-1436	В	Cl	OCF <sub>3</sub>	н	F
	A-1437	F	Cl	OCF <sub>3</sub>	H	F
	A-1438	Cl	C1 .	OCF <sub>3</sub>	H	F
	A-1439	CH <sub>3</sub>	C1	OCF <sub>3</sub>	H	F
45	A-1440	CH <sub>2</sub> CH <sub>3</sub>	Cl	OCF <sub>3</sub>	н	F
	A-1441	н	Cl	F	F .	F





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ſ	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R <sup>12</sup>	R <sup>13</sup>			
Ì	A-1442	F	Cl	F	F	F			
t	A-1443	C1	Cl	F	F	F			
5	A-1444	CH <sub>3</sub>	Cl	F	F	F			
- L	A-1445	CH <sub>2</sub> CH <sub>3</sub>	Cl	F	F	F			
	A-1446	Ħ	Cl	Cl	F	F			
	A-1447	F	Cl	Cl	F	F			
l	A-1448	C1	Cl	Cl	F	F			
10	A-1449	CH <sub>3</sub>	Cl	CJ	F	F			
	A-1450	CH₂CH₃	Cl	C1	F	F			
	A-1451	H	Cl	CHF2	F	F			
	A-1452	F	Cl	CHF2	F	F			
15	A-1453	Cl	Cl	CHF2	F	F			
	A-1454	CH <sub>3</sub>	Cl	CHF2	F	F			
	A-1455	CH <sub>2</sub> CH <sub>3</sub>	Cl	CHF2	F	F			
	A-1456	H	Cl	CF <sub>3</sub>	F	F			
20	A-1457	F	Cl	CF <sub>3</sub>	F	F			
	A-1458	Cl	CJ	CF <sub>3</sub>	F	F			
	A-1459	CH <sub>3</sub>	Cl	CF <sub>3</sub>	F	F			
	A-1460	CH <sub>2</sub> CH <sub>3</sub>	Cl	CF <sub>3</sub>	F .	F			
25	A-1461	Н	Cl	SCHF <sub>2</sub>	F	F			
E.J	A-1462	F	Cl	SCHF <sub>2</sub>	F	F			
	A-1463	Cl	Cl	SCHF <sub>2</sub>	F	F			
	A-1464	CH3	Cl	SCHF <sub>2</sub>	F	F			
	A-1465	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCHF <sub>2</sub>	F	F			
30	A-1466	H	Cl	SCF <sub>3</sub>	F	F			
	A-1467	F	Cl	SCF <sub>3</sub>	F	F			
	A-1468	Cl	Cl	SCF <sub>3</sub>	F	F			
	A-1469	CH <sub>3</sub>	Cl	SCF <sub>3</sub>	F	F			
35	A-1470	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCF <sub>3</sub>	F	F			
	A-1471	Ħ	Cl	OCHF <sub>2</sub>	F	F			
	A-1472	F	Cl	OCHF <sub>2</sub>	F	F			
	A-1473	Cl	Cl	OCHF <sub>2</sub>	F	F			
40	A-1474	CH <sub>3</sub>	Cl	OCHF <sub>2</sub>	F	F			
	A-1475	CH <sub>2</sub> CH <sub>3</sub>	Cl	OCHF <sub>2</sub>	F	F			
	A-1476	H	Cl	OCF <sub>3</sub>	F	F			
	A-1477	F	Cl	OCF <sub>3</sub>	F	F			
45	A-1478	Cl	Cl	OCF <sub>3</sub>	F	F			
4:	A-1479	CH3	Cl	OCF <sub>3</sub>	F	F			
	A-1480	CH <sub>2</sub> CH <sub>3</sub>	cl	OCF <sub>3</sub>	F	F			

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ſ	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R <sup>12</sup>	R13
L	A-1481		Cl	F	Cl	F
ļ	A-1482		Cl	F	Cl	F
ł	A-1483		Cl	F	Cl	F
9 1	A-1484		Cl	F	Cl	F
	A-1485		Cl	F	Cl	F
	A-1486		Cl	Cl	Cl	F
ļ	A-1487		Cl	Cl	Cl	F
10	A-1488		Cl	Cl	Cl	F
	A-1489		Cl	Cl	Cl	F
	A-1490	CH <sub>2</sub> CH <sub>3</sub>	Cl	Cl	Cl	F
	A-1491	Н	Cl	CHF <sub>2</sub>	Cl	F
15	A-1492	F	Cl	CHF <sub>2</sub>	Cl	F
	A-1493	Cl	Cl	CHF <sub>2</sub>	Cl	F
	A-1494	CH <sub>3</sub>	Cl	CHF <sub>2</sub>	Cl	F
	A-1495	CH <sub>2</sub> CH <sub>3</sub>	Cl	CHF <sub>2</sub>	Cl	F
20	A-1496	H	Cl	CF <sub>3</sub>	Cl	F
20	A-1497	F	Cl	CF <sub>3</sub>	Cl	F
	A-1498	Cl	Cl	CF <sub>3</sub>	Cl	F
	A-1499	CH <sub>3</sub>	C1	CF <sub>3</sub>	Cl	F
	A-1500	CH <sub>2</sub> CH <sub>3</sub>	Cl	CF <sub>3</sub>	Cl	F
25	A-1501	H	Cl	SCHF <sub>2</sub>	cı	F
	A-1502	F	Cl	SCHF <sub>2</sub>	Cl	F
	A-1503	Cl	Cl	SCHF <sub>2</sub>	Cl	F
	A-1504	CH <sub>3</sub>	ci	SCHF <sub>2</sub>	Cl	F
30	A-1505	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCHF <sub>2</sub>	Cl	F
	A-1506	H	Cl	SCF <sub>3</sub>	Cl	F
	A-1507	F	Cl	SCF <sub>3</sub>	Cl	F
	A-1508	Cl	Cl	SCF <sub>3</sub>	Cl	F
35		CH3	Cl	SCF <sub>3</sub>	Cl	F
	A-1510	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCF <sub>3</sub>	Cl	F
	A-1511	Н	Cl	OCHF <sub>2</sub>	Cl	F
	A-1512	F	Cl	OCHF <sub>2</sub>	Cl	F
40	3 1512	Cl	C1	OCHF <sub>2</sub>	Cl	F
40	A-1514	CH <sub>3</sub>	Cl	OCHF <sub>2</sub>	Cl	F
	A-1515	CH <sub>2</sub> CH <sub>3</sub>	C1	OCHF <sub>2</sub>	Cl	F
	A-1516	H	c1	OCF <sub>3</sub>	Cl	F
	A-1517	F	Cl	OCF <sub>3</sub>	Cl	F
45	A-1518	Cl	CI	OCF <sub>3</sub>	Cl	F
	A-1519	CH <sub>3</sub>	C1	OCF <sub>3</sub>	Cl .	F
		<del></del>	J			





L			R <sup>2</sup>	R11	R <sup>12</sup>	R <sup>13</sup>
L	1520	CH-CH-				
A-		CH <sub>2</sub> CH <sub>3</sub>	Cl	OCF <sub>3</sub>	Cl	F
	1521	H	Cl	F	CHF <sub>2</sub>	F
5 A-	1522	F	Cl	F	CHF <sub>2</sub>	F
_	1523	C1	Cl	F	CHF <sub>2</sub>	F
A-	1524	CH <sub>3</sub>	Cl	F	CHF <sub>2</sub>	F
A-	1525	CH <sub>2</sub> CH <sub>3</sub>	Cl	F	CHF <sub>2</sub>	F
	-1526	H	Cl	Cl	CHF <sub>2</sub>	F
10 A-	-1527	F	Cl	Cl	CHF <sub>2</sub>	F
A-	-1528	Cl	Cl	Cl	CHF <sub>2</sub>	F
A-	-1529	CH <sub>3</sub>	Cl	Cl	CHF <sub>2</sub>	F
A-	-1530	CH <sub>2</sub> CH <sub>3</sub>	Cl	Cl	CHF <sub>2</sub>	F
15 A.	-1531	H	Cl	CHF <sub>2</sub>	CHF <sub>2</sub>	F
A-	-1532	F	Cl	CHF <sub>2</sub>	CHF <sub>2</sub>	F
A.	-1533	Cl	Cl	CHF <sub>2</sub>	CHF <sub>2</sub>	F
A.	-1534	CH <sub>3</sub>	Cl	CHF <sub>2</sub>	CHF <sub>2</sub>	F
20 A	-1535	CH <sub>2</sub> CH <sub>3</sub>	CJ	CHF <sub>2</sub>	CHF <sub>2</sub>	F
A	-1536	H	Cl	CF <sub>3</sub>	CHF <sub>2</sub>	F
A	-1537	F	C1	CF <sub>3</sub>	CHF <sub>2</sub>	F
A	-1538	Cl	Cl	CF <sub>3</sub>	CHF <sub>2</sub>	F
25 A	-1539	CH <sub>3</sub>	Cl	CF <sub>3</sub>	CHF <sub>2</sub>	F
25 A	-1540	CH <sub>2</sub> CH <sub>3</sub>	Cl	CF <sub>3</sub>	CHF <sub>2</sub>	F
A	-1541	В	CI	SCHF <sub>2</sub>	CHF <sub>2</sub>	F
A	A-1542	F	Cl	SCHF <sub>2</sub>	CHF <sub>2</sub>	F
	4-1543	Cl	Cl	SCHF <sub>2</sub>	CHF <sub>2</sub>	F
30 F	A-1544	CH <sub>3</sub>	Cl	SCHF <sub>2</sub>	CHF <sub>2</sub>	F
Ī	A-1545	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCHF <sub>2</sub>	CHF <sub>2</sub>	F
7	A-1546	H	Cl	SCF <sub>3</sub>	CHF <sub>2</sub>	F
2	A-1547	F	Cl	SCF <sub>3</sub>	CHF <sub>2</sub>	F
35 7	A-1548	Cl	Cl	SCF <sub>3</sub>	CHF <sub>2</sub>	F
17	A-1549	CH <sub>3</sub>	Cl	SCF <sub>3</sub>	CHF <sub>2</sub>	F
<u> </u>	A-1550	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCF <sub>3</sub>	CHF <sub>2</sub>	F
Ţ	A-1551	Н	Cl	OCHF <sub>2</sub>	CHF <sub>2</sub>	F
40	A-1552	F	Cl	OCHF <sub>2</sub>	CHF <sub>2</sub>	F
	A-1553	Cl	Cl	OCHF <sub>2</sub>	CHF <sub>2</sub>	F
f	A-1554	CH <sub>3</sub>	Cl	OCHF <sub>2</sub>	CHF <sub>2</sub>	F
t	A-1555	CH <sub>2</sub> CH <sub>3</sub>	Cl	OCHF <sub>2</sub>	CHF <sub>2</sub>	F
t	A-1556	н	Cl	OCF <sub>3</sub>	CHF <sub>2</sub>	F
45	A-1557	F	Cl	OCF <sub>3</sub>	CHF <sub>2</sub>	F
	A-1558	Cl	Cl	OCF <sub>3</sub>	CHF <sub>2</sub>	F

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			<del></del>			
L			R <sup>2</sup>			R <sup>13</sup>
· ·			cl		CHF <sub>2</sub>	F
- 1	A-1560		cl	OCF <sub>3</sub>	CHF <sub>2</sub>	F
5	A-1561	H	cl	F	CF <sub>3</sub>	F
	A-1562	F	cl	F	CF <sub>3</sub>	F
- 1	A-1563	Cl	Cl	F	CF <sub>3</sub>	F
	A-1564	CH <sub>3</sub>	Cl	F	CF <sub>3</sub>	F
10	A-1565	CH <sub>2</sub> CH <sub>3</sub>	Cl	F	CF <sub>3</sub>	F
10	A-1566	H	Cl	Cl	CF <sub>3</sub>	F
İ	A-1567	F	Cl	Cl	CF <sub>3</sub>	F
	A-1568	Cl	Cl	Cl	CF <sub>3</sub>	F
	A-1569	CH <sub>3</sub>	Cl	Cl	CF <sub>3</sub>	F
15	A-1570	CH <sub>2</sub> CH <sub>3</sub>	Cl	Cl	CF <sub>3</sub>	F
	A-1571	H	Cl	CHF <sub>2</sub>	CF3	F
l	A-1572	F	Cl	CHF <sub>2</sub>	CF <sub>3</sub>	F
	A-1573	Cl	Cl	CHF <sub>2</sub>	CF <sub>3</sub>	F
20	A-1574	CH <sub>3</sub>	Cl	CHF <sub>2</sub>	CF <sub>3</sub>	F
	A-1575	CH <sub>2</sub> CH <sub>3</sub>	Cl	CHF <sub>2</sub>	CF <sub>3</sub>	F
	A-1576	Ħ	Cl	CF <sub>3</sub>	CF <sub>3</sub>	F
	A-1577	F	Cl	CF <sub>3</sub>	CF <sub>3</sub>	F
25	A-1578	Cl	Cl	CF <sub>3</sub>	CF <sub>3</sub>	F
	A-1579	CH <sub>3</sub>	Cl	CF <sub>3</sub>	CF <sub>3</sub>	P
	A-1580	CH <sub>2</sub> CH <sub>3</sub>	Cl	CF <sub>3</sub>	CF <sub>3</sub>	F
	A-1581	H	Cl	SCHF <sub>2</sub>	CF <sub>3</sub>	F
	A-1582	F	Cl	SCHF <sub>2</sub>	CF <sub>3</sub>	F
30	A-1583	Cl	Cl	SCHF <sub>2</sub>	CF <sub>3</sub>	F
	A-1584	CH <sub>3</sub>	Cl	SCHF <sub>2</sub>	CF <sub>3</sub>	F
	A-1585	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCHF <sub>2</sub>	CF <sub>3</sub>	F
	A-1586	Ħ	Cl	SCF <sub>3</sub>	CF <sub>3</sub>	F
35	A-1587	F	Cl	SCF <sub>3</sub>	CF <sub>3</sub>	F
	A-1588	Cl	Cl	SCF <sub>3</sub>	CF <sub>3</sub>	F
	A-1589	CH <sub>3</sub>	Cl	SCF <sub>3</sub>	CF <sub>3</sub>	F
	A-1590	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCF <sub>3</sub>	CF <sub>3</sub>	F
40	A-1591	Ħ	Cl	OCHF <sub>2</sub>	CF <sub>3</sub>	F
•	A-1592	F	Cl	OCHF <sub>2</sub>	CF <sub>3</sub>	F
	A-1593	Cl	c1	OCHF <sub>2</sub>	CF <sub>3</sub>	F
	A-1594	CH3	Cl	OCHF <sub>2</sub>	CF <sub>3</sub>	F
45	A-1595	CH <sub>2</sub> CH <sub>3</sub>	C1	OCHF <sub>2</sub>	CF <sub>3</sub>	F
73	A-1596	H	Cl	OCF <sub>3</sub>	CF <sub>3</sub>	F
	A-1597	F	Cl	OCF <sub>3</sub>	CF <sub>3</sub>	F

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Γ	No.	$\mathbb{R}^1$	R <sup>2</sup>	R <sup>11</sup>	R12	R13
L	A-1598	Cl	Cl	OCF <sub>3</sub>	CF <sub>3</sub>	F
L	A-1599	CH <sub>3</sub>	Cl	OCF <sub>3</sub>	CF <sub>3</sub>	F
L	A-1600	CH <sub>2</sub> CH <sub>3</sub>	C1	OCF <sub>3</sub>	CF <sub>3</sub>	F
- P L	A-1601	H	Cl	F	H	Cl
1	A-1602	F	Cl	F	H	Cl
1	A-1603	Cl	Cl	F	H	Cl
Ł	A-1604	CH <sub>3</sub>	Cl	F	H	Cl
10	A-1605	CH <sub>2</sub> CH <sub>3</sub>	Cl	F	H	Cl
1	A-1606	н	Cl	Cl	H	Cl
	A-1607	F	Cl	Cl	H	C1
1	A-1608	Cl	Cl	Cl	Н	Cl
15	A-1609	CH <sub>3</sub>	C1	Cl	H	Cl
Ì	A-1610	CH <sub>2</sub> CH <sub>3</sub>	C1	Cl	H	Cl
	A-1611	H	Cl	CHF <sub>2</sub>	Ħ	Cl
	A-1612	F	Cl	CHF <sub>2</sub>	H	Cl
20	A-1613	Cl	C1	CHF <sub>2</sub>	Ħ	Cl
	A-1614	CH <sub>3</sub>	Cl	CHF <sub>2</sub>	H	Cl
	A-1615	CH <sub>2</sub> CH <sub>3</sub>	Cl	CHF <sub>2</sub>	H	C1
	A-1616	H	Cl	CF <sub>3</sub>	H	Cl
	A-1617	F	C1	CF <sub>3</sub>	H	Cl
25	A-1618	Cl	Cl	CF <sub>3</sub>	Ħ	C1
	A-1619	CH <sub>3</sub>	Cl	CF <sub>3</sub>	H	C1
	A-1620	CH <sub>2</sub> CH <sub>3</sub>	Cl	CF <sub>3</sub>	Ħ	Cl
	A-1621	Н	Cl	SCHF <sub>2</sub>	H	Cl
30	A-1622	F	Cl	SCHF <sub>2</sub>	H	Cl
	A-1623	Cl	C1	SCHF <sub>2</sub>	H	Cl
	A-1624	CH <sub>3</sub>	Cl	SCHF <sub>2</sub>	H	Cl
	A-1625	CH <sub>2</sub> CH <sub>3</sub>	C1	SCHF <sub>2</sub>	H	Cl
35	A-1626	H	C1	SCF <sub>3</sub>	H	Cl
	A-1627	F	Cl	SCF <sub>3</sub>	H	Cl
	A-1628	Cl	Cl	SCF <sub>3</sub>	H	Cl
	A-1629	CH <sub>3</sub>	Cl	SCF <sub>3</sub>	H	Cl
40	A-1630	CH <sub>2</sub> CH <sub>3</sub>	C1	SCF <sub>3</sub>	H	Cl
	A-1631	H	Cl	OCHF <sub>2</sub>	H	Cl
	A-1632	F	Cl	OCHF <sub>2</sub>	日	C1
	A-1633	Cl	Cl	OCHF <sub>2</sub>	H	C1
	A-1634	CH <sub>3</sub>	Cl	OCHF <sub>2</sub>	H	c1
4	A-1635	CH <sub>2</sub> CH <sub>3</sub>	Cl	OCHF <sub>2</sub>	H	C1
	A-1636	H	Cl	OCF <sub>3</sub>	H	C1

		81								
Γ	No.	R <sup>1</sup>	R <sup>2</sup>	R11	R12	R <sup>13</sup>				
	A-1637	F	Cl	OCF <sub>3</sub>	H	Cl				
	A-1638	Cl	Cl	OCF <sub>3</sub>	H	Cl				
5	A-1639	CH <sub>3</sub>	Cl	OCF <sub>3</sub>	H	Cl				
	A-1640	CH <sub>2</sub> CH <sub>3</sub>	Cl	OCF <sub>3</sub>	H	Cl				
Ī	A-1641	В	Cl	F	F	Cl				
Ī	A-1642	F	Cl	F	F	Cl				
	A-1643	Cl	Cl	F	F	Cl				
10	A-1644	CH <sub>3</sub>	Cl	F	F	Cl				
į	A-1645	CH <sub>2</sub> CH <sub>3</sub>	Cl	F	F	Cl				
- 1	A-1646	H	Cl	Cl	F	Cl				
	A-1647	F	Cl	Cl	F	Cl				
15	A-1648	Cl	Cl	Cl	F	Cl				
	A-1649	CH <sub>3</sub>	Cl	Cl	F	Cl				
	A-1650	CH <sub>2</sub> CH <sub>3</sub>	Cl	Cl	F	Cl				
	A-1651	H	Cl	CHF <sub>2</sub>	F	Cl				
20	A-1652	F	Cl	CHF <sub>2</sub>	F	Cl				
	A-1653	Cl	Cl	CHF <sub>2</sub>	F	Cl				
	A-1654	CH <sub>3</sub>	Cl	CHF <sub>2</sub>	F	Cl				
	A-1655	CH <sub>2</sub> CH <sub>3</sub>	Cl	CHF <sub>2</sub>	F	Cl				
25	A-1656	H	Cl	CF <sub>3</sub>	F	Cl				
	A-1657	F	Cl	CF <sub>3</sub>	F	Cl				
	A-1658	Cl	Cl	CF <sub>3</sub>	F	Cl				
	A-1659	CH3	Cl	CF <sub>3</sub>	F	Cl				
20	A-1660	CH <sub>2</sub> CH <sub>3</sub>	C1	CF <sub>3</sub>	F	Cl				
30	A-1661	H	Cl	SCHF <sub>2</sub>	F	Cl				
	A-1662	F	Cl	SCHF <sub>2</sub>	F	Cl				
	A-1663	Cl	Cl	SCHF <sub>2</sub>	F	Cl				
*	A-1664	CH <sub>3</sub>	Cl	SCHF <sub>2</sub>	F	Cl				
35	A-1665	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCHF <sub>2</sub>	F	Cl				
	A-1666	В	Cl	SCF <sub>3</sub>	F	Cl				
	A-1667	F	Cl	SCF <sub>3</sub>	F	Cl				
	A-1668	Cl	C1	SCF <sub>3</sub>	F	Cl				
40	A-1669	CH <sub>3</sub>	Cl	SCF <sub>3</sub>	F	Cl				
•	A-1670	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCF <sub>3</sub>	F	Cl				
	A-1671	H	Cl	OCHF <sub>2</sub>	F	.cı				
	A-1672	F	Cl	OCHF <sub>2</sub>	F	Cl				
45	A-1673	Cl	Cl	OCHF <sub>2</sub>	P	Cl				
45	A-1674	CH <sub>3</sub>	Cl	OCHF <sub>2</sub>	F	Cl				
	A-1675	CH <sub>2</sub> CH <sub>3</sub>	C1	OCHF <sub>2</sub>	F	Cl				

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F	No.	R1	R <sup>2</sup>	R <sup>11</sup>	R <sup>12</sup>	R <sup>13</sup>
	A-1676	H	Cl	OCF <sub>3</sub>	F	Cl
L	A-1677	F	Cl	OCF <sub>3</sub>	F	C1
L	A-1678	Cl	Cl	OCF <sub>3</sub>	F	Cl
	A-1679	CH <sub>3</sub>	Cl	OCF <sub>3</sub>	F	Cl
ļ	A-1680	CH <sub>2</sub> CH <sub>3</sub>	Cl	OCF <sub>3</sub>	F	C1
Ì	A-1681	H	Cl	F	Cl	Cl
ı	A-1682	F	Cl	F	Cl	Cl
10	A-1683	Cl	Cl	F	Cl	Cl
	A-1684	CH <sub>3</sub>	Cl	F	Cl	Cl
	A-1685	CH <sub>2</sub> CH <sub>3</sub>	Cl	F	Cl	C1
	A-1686	Н	Cl	Cl	Cl	Cl
	A-1687	F	Cl	Cl	Cl	Cl
	A-1688	Cl	Cl	Cl	Cl	Cl
	A-1689	CH <sub>3</sub>	Cl	Cl	Cl	Cl
	A-1690	CH <sub>2</sub> CH <sub>3</sub>	Cl	Cl	Cl	Cl
20	A-1691	H	Cl	CHF <sub>2</sub>	Cl	C1
	A-1692	F	Cl	CEF <sub>2</sub>	Cl	Cl
	A-1693	C1	Cl	CHF <sub>2</sub>	Cl	Cl
	A-1694	CH <sub>3</sub>	Cl	CHF <sub>2</sub>	C1	C1
25	A-1695	CH <sub>2</sub> CH <sub>3</sub>	C1	CHF <sub>2</sub>	Cl	Cl
	A-1696	H	Cl	CF <sub>3</sub>	Cl	C1
	A-1697	F	Cl	CF <sub>3</sub>	Cl	C1
	A-1698	Cl	Cl	CF <sub>3</sub>	Cl	Cl
	A-1699	CH <sub>3</sub>	Cl	CF <sub>3</sub>	Cl	C1
30	A-1700	CH <sub>2</sub> CH <sub>3</sub>	Cl	CF <sub>3</sub>	Cl	Cl
	A-1701	H	Cl	SCHF <sub>2</sub>	Cl	C1
	A-1702	F	Cl	SCHF <sub>2</sub>	Cl	C1
	A-1703	C1	Cl	SCHF <sub>2</sub>	C1	C1
35	A-1704	CH3	Cl	SCHF <sub>2</sub>	Cl	C1
	A-1705	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCHF <sub>2</sub>	Cl	C1
	A-1706	H	Cl	SCF <sub>3</sub>	Cl	C1
	A-1707	F	Cl	SCF <sub>3</sub>	Cl	C1
40	A-1708	Cl	Cl	SCF <sub>3</sub>	Cl	C1
	A-1709	CH <sub>3</sub>	Cl	SCF <sub>3</sub>	C1	C1
	A-1710	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCF <sub>3</sub>	C1	C1
	A-1711	H	Cl	OCHF <sub>2</sub>	C1	Cl
4:	A-1712	F	Cl	OCHF <sub>2</sub>	Cl	C1
<b>-</b> ∓4	A-1713	Cl	Cl	OCHF2	C1	C1
	A-1714	CH <sub>3</sub>	cı	OCHF <sub>2</sub>	Cl	

-	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R12	R13
	A-1715	CH <sub>2</sub> CH <sub>3</sub>	Cl	OCEF <sub>2</sub>	C1	Cl
[	A-1716	H	Cl	OCF3	Cl	Cl
5	A-1717	F .	Cl	OCF <sub>3</sub>	Cl	Cl
	A-1718	Cl	Cl	OCF3	Cl	Cl
ı	A-1719	CH <sub>3</sub>	Cl	OCF <sub>3</sub>	Cl	Cl
	A-1720	CH <sub>2</sub> CH <sub>3</sub>	Cl	OCF <sub>3</sub>	Cl	Cl
10	A-1721	H	Cl	F	CHF <sub>2</sub>	Cl
10	A-1722	F	Cl	F	CHF <sub>2</sub>	Cl
	A-1723	Cl	Cl	F	CHF <sub>2</sub>	Cl
1	A-1724	CH <sub>3</sub>	Cl	F	CHF <sub>2</sub>	Cl
1	A-1725	CH <sub>2</sub> CH <sub>3</sub>	Cl	F	CHF <sub>2</sub>	Cl
15	A-1726	Ħ	Cl	Cl	CHF <sub>2</sub>	Cl
	A-1727	F	Cl	Cl	CHF <sub>2</sub>	Cl
İ	A-1728	Cl	Cl	Cl	CHF <sub>2</sub>	Cl
	A-1729	CH <sub>3</sub>	Cl	Cl	CHF <sub>2</sub>	Cl
20	A-1730	CH <sub>2</sub> CH <sub>3</sub>	Cl	Cl	CHF <sub>2</sub>	Cl
	A-1731	H	Cl	CHF <sub>2</sub>	CHF <sub>2</sub>	Cl
	A-1732	F	Cl	CHF <sub>2</sub>	CHF <sub>2</sub>	Cl
	A-1733	Cl	Cl	CHF <sub>2</sub>	CHF <sub>2</sub>	Cl
25	A-1734	CH₃	Cl	CHF <sub>2</sub>	CHF <sub>2</sub>	Cl
	A-1735	CH <sub>2</sub> CH <sub>3</sub>	Cl	CHF <sub>2</sub>	CHF <sub>2</sub>	Cl
1	A-1736	H	Cl	CF <sub>3</sub>	CHF <sub>2</sub>	Cl
	A-1737	F	Cl	CF <sub>3</sub>	CHF <sub>2</sub>	Cl
20	A-1738	Cl	Cl	CF <sub>3</sub>	CHF <sub>2</sub>	Cl
30	A-1739	CH <sub>3</sub>	Cl	CF <sub>3</sub>	CHF <sub>2</sub>	Cl
	A-1740	СH <sub>2</sub> CH <sub>3</sub>	Cl	CF <sub>3</sub>	CHF <sub>2</sub>	Cl
	A-1741	H	Cl	SCHF <sub>2</sub>	CHF <sub>2</sub>	Cl
	A-1742	P	Cl	SCHF <sub>2</sub>	CHF <sub>2</sub>	Cl
35	A-1743	Cl	Cl	SCHF <sub>2</sub>	CHF <sub>2</sub>	Cl
	A-1744	CH <sub>3</sub>	Cl	SCHF <sub>2</sub>	CHF <sub>2</sub>	Cl
	A-1745	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCHF <sub>2</sub>	CHF <sub>2</sub>	Cl
	A-1746	H	Cl	SCF <sub>3</sub>	CHF <sub>2</sub>	Cl
40	A-1747	F	Cl	SCF <sub>3</sub>	CHF <sub>2</sub>	Cl
•	A-1748	Cl	Cl	SCF <sub>3</sub>	CHF <sub>2</sub>	Cl
	A-1749	CH <sub>3</sub>	Cl	SCF <sub>3</sub>	CHF <sub>2</sub>	Cl
	A-1750	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCF <sub>3</sub>	CHF <sub>2</sub>	Cl
45	A-1751	H	Cl	OCHF <sub>2</sub>	CHF <sub>2</sub>	Cl
	A-1752	F	Cl	OCHF <sub>2</sub>	CHF <sub>2</sub>	Cl
	A-1753	Cl	Cl	OCHF <sub>2</sub>	CHF2	Cl



<b>F</b>	No.	R1	R <sup>2</sup>	R <sup>11</sup>	R <sup>12</sup>	R <sup>13</sup>
Ī	A-1754	CH <sub>3</sub>	Cl	OCHF <sub>2</sub>	CHF <sub>2</sub>	Cl
- [	A-1755	CH₂CH3	Cl	OCHF <sub>2</sub>	CHF <sub>2</sub>	Cl
5	A-1756	H	Cl	OCF <sub>3</sub>	CHF <sub>2</sub>	Cl
	A-1757	F	Cl	OCF <sub>3</sub>	CHF <sub>2</sub>	Cl
f	A-1758	Cl	Cl	OCF <sub>3</sub>	CHF <sub>2</sub>	Cl
Ì	A-1759	CH <sub>3</sub>	Cl	OCF <sub>3</sub>	CHF <sub>2</sub>	Cl
t	A-1760	CH <sub>2</sub> CH <sub>3</sub>	Cl	OCF <sub>3</sub>	CHF <sub>2</sub>	Cl
10	A-1761	H	Cl	F	CF <sub>3</sub>	Cl
l	A-1762	F	Cl	F	CF <sub>3</sub>	Cl
Ì	A-1763	Cl	Cl	F	CF <sub>3</sub>	Cl
	A-1764	CH <sub>3</sub>	Cl	F	CF <sub>3</sub>	Cl
15	A-1765	CH <sub>2</sub> CH <sub>3</sub>	Cl	F	CF <sub>3</sub>	Cl
	A-1766	H	Cl	Cl	CF <sub>3</sub>	Cl
	A-1767	F	Cl	C1	CF <sub>3</sub>	Cl
	A-1768	C1	Cl	Cl	CF <sub>3</sub>	Cl
20	A-1769	CH <sub>3</sub>	cı	Cl	CF <sub>3</sub>	Cl
	A-1770	CH <sub>2</sub> CH <sub>3</sub>	Cl	Cl	CF <sub>3</sub>	Cl
	A-1771	н	Cl	CHF <sub>2</sub>	CF <sub>3</sub>	Cl
	A-1772	F	Cl	CHF <sub>2</sub>	CF <sub>3</sub>	Cl
	A-1773	Cl	Cl	CHF <sub>2</sub>	CF <sub>3</sub>	Cl
25	A-1774	CH <sub>3</sub>	Cl	CHF <sub>2</sub>	CF <sub>3</sub>	Cl
	A-1775	CH <sub>2</sub> CH <sub>3</sub>	Cl	CHF <sub>2</sub>	CF <sub>3</sub>	Cl
	A-1776	н	Cl	CF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-1777	F	Cl	CF <sub>3</sub>	CF <sub>3</sub>	Cl
30	A-1778	Cl	Cl	CF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-1779	CH <sub>3</sub>	Cl	CF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-1780	CH <sub>2</sub> CH <sub>3</sub>	Cl	CF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-1781	Н	Cl	SCHF <sub>2</sub>	CF <sub>3</sub>	Cl
35	A-1782	F	Cl	SCHF <sub>2</sub>	CF <sub>3</sub>	Cl
	A-1783	Cl	Cl	SCHF <sub>2</sub>	CF <sub>3</sub>	Cl
	A-1784	CH <sub>3</sub>	Cl	SCHF <sub>2</sub>	CF <sub>3</sub>	Cl
	A-1785	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCHF <sub>2</sub>	CF <sub>3</sub>	Cl
40	A-1786	н	Cl	SCF <sub>3</sub>	CF <sub>3</sub>	Cl
10	A-1787	F	Cl	SCF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-1788	Cl	Cl	SCF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-1789	CH <sub>3</sub>	Cl	SCF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-1790	CH <sub>2</sub> CH <sub>3</sub>	Cl	SCF <sub>3</sub>	CF <sub>3</sub>	Cl
45	A-1791	H	Cl	OCHF <sub>2</sub>	CF <sub>3</sub>	Cl
	A-1792	F	Cl	OCHF <sub>2</sub>	CF <sub>3</sub>	Cl

_	85							
	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R12	R <sup>13</sup>		
	A-1793	Cl	Cl	OCHF <sub>2</sub>	CF <sub>3</sub>	Cl		
	A-1794	CH <sub>3</sub>	Cl	OCHF <sub>2</sub>	CF <sub>3</sub>	Cl		
5	A-1795	CH <sub>2</sub> CH <sub>3</sub>	Cl	OCHF <sub>2</sub>	CF <sub>3</sub>	Cl		
I	A-1796	H	Cl	OCF <sub>3</sub>	CF <sub>3</sub>	Cl		
I	A-1797	F	Cl	OCF <sub>3</sub>	CF <sub>3</sub>	Cl		
[	A-1798	Cl	Cl	OCF <sub>3</sub>	CF <sub>3</sub>	Cl		
10	A-1799	CH3	Cl	OCF <sub>3</sub>	CF <sub>3</sub>	Cl		
10	A-1800	CH <sub>2</sub> CH <sub>3</sub>	Cl	OCF <sub>3</sub>	CF <sub>3</sub>	Cl		
	A-1801	H	CH <sub>3</sub>	F	B	H		
	A-1802	F	CH <sub>3</sub>	F	Ħ	H		
	A-1803	Cl	CH <sub>3</sub>	F	H	H		
15	A-1804	CH <sub>3</sub>	CH <sub>3</sub>	F	Ħ	H		
	A-1805	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	F	Ħ	H		
	A-1806	H	C⊞ <sub>3</sub>	Cl	H	H		
	A-1807	F	CH <sub>3</sub>	Cl	H	H		
20	A-1808	Cl	СH <sub>3</sub>	Cl	H	Ħ		
	A-1809	CH <sub>3</sub>	CH <sub>3</sub>	Cl	H	H		
!	A-1810	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	Cl	H	H		
	A-1811	H	CH <sub>3</sub>	CHF <sub>2</sub>	H	H		
25	A-1812	F	CH3	CHF <sub>2</sub>	H	H		
	A-1813	Cl	CH <sub>3</sub>	CHF <sub>2</sub>	H	H		
	A-1814	CH <sub>3</sub>	CH <sub>3</sub>	CHF <sub>2</sub>	B	H		
	A-1815	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	CHF <sub>2</sub>	H	H		
	A-1816	H	CH <sub>3</sub>	CF <sub>3</sub>	H	H		
30	A-1817	F	CH <sub>3</sub>	CF <sub>3</sub>	H	H		
	A-1818	Cl	CH <sub>3</sub>	CF <sub>3</sub>	H	H		
	A-1819	CH <sub>3</sub>	CH <sub>3</sub>	CF <sub>3</sub>	H	H		
	A-1820	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	CF <sub>3</sub>	H	H		
35	A-1821	Ħ	CH <sub>3</sub>	SCHF <sub>2</sub>	H	Ħ		
	A-1822	F	CH <sub>3</sub>	SCHF <sub>2</sub>	H	H		
	A-1823	CJ	CH <sub>3</sub>	SCHF <sub>2</sub>	H	H		
	A-1824	CH <sub>3</sub>	CH3	SCHF <sub>2</sub>	H	H		
40	A-1825	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	SCHF <sub>2</sub>	H	H		
	A-1826	H	CH <sub>3</sub>	SCF <sub>3</sub>	Ħ	H		
	A-1827	F	CH <sub>3</sub>	SCF <sub>3</sub>	H	H		
	A-1828	Cl	CH3	SCF <sub>3</sub>	Н	H		
45	A-1829	CH <sub>3</sub>	CH <sub>3</sub>	SCF <sub>3</sub>	H	H		
43	A-1830	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	SCF <sub>3</sub>	H	H		
	A-1831	H	CH <sub>3</sub>	OCHF <sub>2</sub>	E	H		

2.5





	_		86			<u> </u>
Γ	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R <sup>12</sup>	R <sup>13</sup>
Ī	A-1832	F	CH <sub>3</sub>	OCHF <sub>2</sub>	H	Ħ
Ī	A-1833	Cl	CH3	OCHF <sub>2</sub>	H	<b>B</b>
5	A-1834	СH <sub>3</sub>	CH <sub>3</sub>	OCHF <sub>2</sub>	H	H
	A-1835	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	OCHF <sub>2</sub>	H	H
1	A-1836	H	CH <sub>3</sub>	OCF <sub>3</sub>	H	H
I	A-1837	F	CH <sub>3</sub>	OCF <sub>3</sub>	H	H
	A-1838	C1	CH <sub>3</sub>	OCF <sub>3</sub>	H	H
10	A-1839	CH3	CH <sub>3</sub>	OCF <sub>3</sub>	H	H
	A-1840	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	OCF <sub>3</sub>	H	Ħ
ĺ	A-1841	н	CH <sub>3</sub>	F	F	Ħ
	A-1842	F	CH <sub>3</sub>	F	F	Ħ
15	A-1843	C1	CH <sub>3</sub>	F	F	H
	A-1844	CH <sub>3</sub>	CH <sub>3</sub>	F	F	H
	A-1845	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	F	F	H
	A-1846	H	CH <sub>3</sub>	Cl	F	H
20	A-1847	F	CH <sub>3</sub>	Cl	F	н
	A-1848	Cl	СH <sub>3</sub>	Cl	F	H
	A-1849	CH3	CH <sub>3</sub>	Cl	F	H
	A-1850	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	Cl	F	H
25	A-1851	H	CH <sub>3</sub>	CHF <sub>2</sub>	F	H
	A-1852	F	CH <sub>3</sub>	CHF <sub>2</sub>	F	H
	A-1853	Cl	CH3	CHF <sub>2</sub>	F	H
	A-1854	CH <sub>3</sub>	CH <sub>3</sub>	CHF <sub>2</sub>	F	H
	A-1855	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	CHF <sub>2</sub>	F	н
30	A-1856	H	CH <sub>3</sub>	CF <sub>3</sub>	F	H
	A-1857	F	CH <sub>3</sub>	CF <sub>3</sub>	F	H
	A-1858	Cl	CH <sub>3</sub>	CF <sub>3</sub>	F	H
	A-1859	CH <sub>3</sub>	CH <sub>3</sub>	CF <sub>3</sub>	F	H
35	A-1860	CH <sub>2</sub> CH <sub>3</sub>	CH3	CF <sub>3</sub>	F	H
	A-1861	H	CH <sub>3</sub>	SCHF <sub>2</sub>	F	H
	A-1862	F	CH <sub>3</sub>	SCHF <sub>2</sub>	F	Н
	A-1863	Cl	CH <sub>3</sub>	SCHF <sub>2</sub>	F	H
40	A-1864	CH <sub>3</sub>	CH <sub>3</sub>	SCHF <sub>2</sub>	F	H
	A-1865	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	SCHF <sub>2</sub>	F	H
	A-1866	H	CH <sub>3</sub>	SCF <sub>3</sub>	F	H
	A-1867	F	CH <sub>3</sub>	SCF <sub>3</sub>	F	H
45	A-1868	Cl	CH <sub>3</sub>	SCF <sub>3</sub>	F	H
*2	A-1869	CH <sub>3</sub>	CH <sub>3</sub>	SCF <sub>3</sub>	F	H
	A-1870	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	SCF <sub>3</sub>	F	H



No.   R1		67							
A-1872 F CH <sub>3</sub> CCH <sub>2</sub> F H  A-1873 C1 CH <sub>3</sub> CCH <sub>2</sub> F H  A-1874 CH <sub>3</sub> CH <sub>3</sub> CCH <sub>2</sub> F H  A-1875 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CCH <sub>2</sub> F H  A-1875 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CCH <sub>2</sub> F H  A-1876 H CH <sub>3</sub> CCH <sub>3</sub> CCF <sub>3</sub> F H  A-1877 F CH <sub>3</sub> CCF <sub>3</sub> F H  A-1878 C1 CH <sub>3</sub> CCF <sub>3</sub> F H  A-1878 C1 CH <sub>3</sub> CCF <sub>3</sub> F H  A-1879 CH <sub>3</sub> CH <sub>3</sub> CCF <sub>3</sub> F H  A-1880 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CCF <sub>3</sub> F H  A-1881 H CH <sub>3</sub> F C1 H  A-1882 F CH <sub>3</sub> F C1 H  A-1883 C1 CH <sub>3</sub> F C1 H  A-1884 CH <sub>3</sub> CH <sub>3</sub> F C1 H  A-1885 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F C1 H  A-1886 H CH <sub>3</sub> CH <sub>3</sub> F C1 H  A-1887 F CH <sub>3</sub> C1 H  A-1888 C1 CH <sub>3</sub> C1 CH  A-1889 CH <sub>3</sub> CH <sub>3</sub> C1 C1 H  A-1889 CH <sub>3</sub> CH <sub>3</sub> C1 C1 H  A-1889 CH <sub>3</sub> CH <sub>3</sub> C1 C1 H  A-1889 CH <sub>3</sub> CH <sub>3</sub> C1 C1 H  A-1889 CH <sub>3</sub> CH <sub>3</sub> C1 C1 H  A-1889 CH <sub>3</sub> CH <sub>3</sub> C1 C1 H  A-1889 CH <sub>3</sub> CH <sub>3</sub> C1 C1 H  A-1889 CH <sub>3</sub> CH <sub>3</sub> C1 C1 H  A-1889 CH <sub>3</sub> CH <sub>3</sub> C1 C1 H  A-1891 H CH <sub>3</sub> CH <sub>3</sub> C1 C1 H  A-1891 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> C1 C1 H  A-1891 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> C1 C1 H  A-1891 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> C1 C1 H  A-1893 C1 CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 H  A-1894 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 H  A-1895 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 H  A-1896 H CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 H  A-1897 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 H  A-1898 C1 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H  A-1899 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H  A-1899 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H  A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H  A-1901 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H  A-1902 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CCF <sub>3</sub> C1 H  A-1904 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CCF <sub>3</sub> C1 H  A-1904 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CCF <sub>3</sub> C1 H  A-1906 H CH <sub>3</sub> CH <sub>3</sub> CCF <sub>3</sub> C1 H  A-1907 F CH <sub>3</sub> CCF <sub>3</sub> C1 H  A-1907 F CH <sub>3</sub> CCF <sub>3</sub> C1 H  A-1907 F CH <sub>3</sub> CCF <sub>3</sub> C1 H  A-1907 F CH <sub>3</sub> CCF <sub>3</sub> C1 H  A-1907 F CH <sub>3</sub> CCF <sub>3</sub> C1 H  A-1908 C1 CH <sub>3</sub> CCF <sub>3</sub> C1 H  A-1907 F CH <sub>3</sub> CCF <sub>3</sub> C1 H  A-1908 C1 CH <sub>3</sub> CCF <sub>3</sub> C1 H  A-1907 F CH <sub>3</sub> CCF <sub>3</sub> C1 H  A-1907 F CH <sub>3</sub> CCF <sub>3</sub> C1 H  A-1908 C1 CH <sub>3</sub> CCF <sub>3</sub> C1 H  A-1908 C1 CH <sub>3</sub> CCF <sub>3</sub> C1 H  A-1908 C1 CH <sub>3</sub> CCF <sub>3</sub> C1 H  A-1908 C1 CH <sub>3</sub> CCF <sub>3</sub> C1 H  A-1908 C1 CH <sub>3</sub> CCF <sub>3</sub> C1 H  A-1908 C1 CH <sub>3</sub> CCF <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCF <sub>3</sub> C1 H  A-1908 C1 CH <sub>3</sub> CCF <sub>3</sub> CCF <sub>3</sub> C1 H  A-1908 C1 CH <sub>3</sub> CCF <sub>3</sub> CCH <sub>3</sub> CCF <sub>3</sub> C1 H  A-1908 C1 CH <sub>3</sub> CCF <sub>3</sub> CCF <sub>3</sub> C1 H  A-190	ſ	No.	R <sup>1</sup>	R <sup>2</sup>	R11	R <sup>12</sup>	R <sup>13</sup>		
The image	Ī	A-1871	Ħ	CH <sub>3</sub>	OCHF <sub>2</sub>	F	H		
A-1874 CB3 CB3 CB3 CCB72 F B A-1875 CB2CB3 CB3 CCB72 F B A-1876 B CCB3 CCB3 F B A-1877 F CB3 CCB3 F B A-1878 C1 CB3 CCB3 F B A-1879 CB3 CB3 CCB3 F B A-1880 CB2CB3 CB3 CCCB3 F B A-1880 CB2CB3 CB3 CCCB3 F B A-1881 B CCB3 CCCB3 F B B A-1882 F CB3 F C1 B A-1883 C1 CB3 F C1 B A-1884 CB3 CB3 F C1 B A-1885 CB2CB5 CB3 F C1 B A-1885 CB2CB5 CB3 F C1 B A-1886 B CCB3 F C1 B A-1887 F C1 B B A-1888 C1 CCB3 F C1 B B A-1888 C1 CCB3 F C1 B B A-1889 CB3 CB3 CCB3 F C1 B B A-1889 CB3 CCB3 CCB3 F C1 B B A-1889 CB3 CCB3 CCB3 F C1 B B A-1889 CB3 CCB3 CCB3 F C1 B B A-1889 CCB3 CCB3 CCB CCB CCB CCB CCB CCB CCB C	- 1	A-1872	F	CH <sub>3</sub>	OCHF <sub>2</sub>	F	H		
A-1875 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCH <sub>2</sub> F B B A-1876 B CH <sub>2</sub> CH <sub>3</sub> OCF <sub>3</sub> F B A-1877 F CH <sub>3</sub> OCF <sub>3</sub> F B A-1877 F CH <sub>3</sub> OCF <sub>3</sub> F B A-1878 C1 CH <sub>3</sub> OCF <sub>3</sub> F B A-1879 CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> F B A-1880 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> F B A-1881 B CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F C1 B A-1882 F CH <sub>3</sub> F C1 B A-1883 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F C1 B A-1884 CH <sub>3</sub> CH <sub>3</sub> F C1 B A-1885 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F C1 B A-1886 B CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F C1 B A-1887 F CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F C1 B A-1888 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F C1 B A-1889 CH <sub>3</sub> CH <sub>3</sub> C1 C1 B A-1889 CH <sub>3</sub> CH <sub>3</sub> C1 C1 B A-1899 CH <sub>3</sub> CH <sub>3</sub> C1 C1 B A-1891 B CH <sub>2</sub> CH <sub>3</sub> C1 C1 B A-1892 F CH <sub>3</sub> CH <sub>3</sub> C1 C1 B A-1893 C1 CH <sub>3</sub> CH <sub>3</sub> C1 C1 B A-1893 C1 CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 B A-1894 CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 B A-1895 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 B A-1896 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 B A-1897 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 B A-1896 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 B A-1897 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 B A-1897 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 B A-1897 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 B A-1897 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 B A-1897 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 B A-1897 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 B A-1899 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 B A-1899 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 B A-1890 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 B A-1890 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 B A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 B A-1901 B CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 B A-1902 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 B A-1903 C1 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 B A-1904 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 B A-1905 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 B A-1906 B CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 B A-1906 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CCH <sub>2</sub> C1 B A-1906 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CCH <sub>2</sub> C1 B A-1907 F CH <sub>3</sub> CH <sub>3</sub> CCH <sub>2</sub> C1 B A-1908 C1 CH <sub>3</sub> CH <sub>3</sub> CCH <sub>2</sub> C1 B A-1908 C1 CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>4</sub> C1 B A-1908 C1 CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>4</sub> C1 B A-1908 C1 CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>4</sub> C1 B A-1908 C1 CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>4</sub> C1 B A-1908 C1 CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>4</sub> C1 B A-1908 C1 CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>4</sub> C1 B A-1908 C1 CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>4</sub> C1 B A-1908 C1 CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>4</sub> C1 B A-1908 C1 CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>4</sub> C1 B A-1908 C1 CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>4</sub> C1 B A-1908 C1 CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub>	5	A-1873	Cl	CH <sub>3</sub>	OCHF <sub>2</sub>	F	H .		
A-1876   H		A-1874	CH <sub>3</sub>	CH3	OCHF <sub>2</sub>	F	H		
A-1877   F   CH3   OCF3   F   H	Ì	A-1875	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	OCHF <sub>2</sub>	F	H		
A-1878		A-1876	H	CH <sub>3</sub>	OCF <sub>3</sub>	F	H		
A-1878 C1 CH <sub>3</sub> OCF <sub>3</sub> F H A-1879 CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> F H A-1880 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> F H A-1881 H CH <sub>3</sub> F C1 H A-1882 F CH <sub>3</sub> F C1 H A-1883 C1 CH <sub>3</sub> F C1 H A-1884 CH <sub>3</sub> CH <sub>3</sub> F C1 H A-1885 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F C1 H A-1885 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F C1 H A-1886 H CH <sub>3</sub> C1 C1 C1 H A-1887 F CH <sub>3</sub> C1 C1 H A-1888 C1 CH <sub>3</sub> C1 C1 H A-1889 CH <sub>3</sub> CH <sub>3</sub> C1 C1 H A-1889 CH <sub>3</sub> CH <sub>3</sub> C1 C1 H A-1890 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> C1 C1 H A-1891 H CH <sub>3</sub> CH <sub>2</sub> C1 H A-1892 F CH <sub>3</sub> CH <sub>3</sub> C1 C1 H A-1893 C1 CH <sub>3</sub> CH <sub>2</sub> C1 H A-1894 CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 H A-1895 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 H A-1896 H CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 H A-1897 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 H A-1897 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 H A-1899 CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 H A-1899 CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 H A-1896 H CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 H A-1897 F CH <sub>3</sub> CF <sub>3</sub> C1 H A-1898 C1 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H A-1899 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H A-1899 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H A-1899 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-		A-1877	F	CH <sub>3</sub>	OCF <sub>3</sub>	F	H		
A-1880 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> F H A-1881 H CH <sub>3</sub> F Cl H A-1882 F CH <sub>3</sub> F Cl H A-1883 Cl CH <sub>3</sub> F Cl H A-1884 CH <sub>3</sub> CH <sub>3</sub> F Cl H A-1885 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F Cl H A-1886 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F Cl H A-1887 F CH <sub>3</sub> CH <sub>3</sub> Cl Cl H A-1888 Cl CH <sub>3</sub> Cl Cl H A-1888 Cl CH <sub>3</sub> Cl Cl H A-1889 CH <sub>3</sub> CH <sub>3</sub> Cl Cl H A-1889 CH <sub>3</sub> CH <sub>3</sub> Cl Cl H A-1891 H CH <sub>3</sub> Cl Cl H A-1892 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> Cl H A-1893 Cl CH <sub>3</sub> CH <sub>2</sub> Cl H A-1894 CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> Cl H A-1895 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> Cl H A-1897 CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> Cl H A-1897 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> Cl H A-1898 Cl CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> Cl H A-1899 CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> Cl H A-1890 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> Cl H A-1891 CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C Cl H A-1892 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C Cl H A-1895 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C Cl H A-1896 CH CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C Cl H A-1897 F CH <sub>3</sub> CF <sub>3</sub> Cl H A-1898 Cl CH <sub>3</sub> CF <sub>3</sub> Cl H A-1898 Cl CH <sub>3</sub> CF <sub>3</sub> Cl H A-1899 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1901 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1901 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1901 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1901 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CCH <sub>2</sub> Cl H A-1901 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CCH <sub>2</sub> Cl H A-1901 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CCH <sub>2</sub> Cl H A-1905 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CCH <sub>2</sub> Cl H A-1906 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CCH <sub>2</sub> Cl H A-1907 F CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>2</sub> Cl H A-1907 F CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>2</sub> Cl H A-1906 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CCH <sub>2</sub> Cl H A-1907 F CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>2</sub> Cl H A-1906 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CCH <sub>2</sub> Cl H A-1907 F CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>2</sub> Cl H A-1907 F CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>2</sub> Cl H A-1907 F CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>2</sub> Cl H A-1906 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CCH <sub>2</sub> CCl H A-1907 F CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>2</sub> Cl H A-1906 CH CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>2</sub> Cl H A-1907 F CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>2</sub> Cl H A-1906 CH CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>4</sub> CCH <sub>3</sub> CCH <sub>4</sub> CCH <sub>3</sub> CCH <sub>4</sub> CCH <sub>3</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> C	10	A-1878	Cl	CH <sub>3</sub>	OCF <sub>3</sub>	F	H		
A-1881 H CH <sub>3</sub> F Cl H A-1882 F CH <sub>3</sub> F Cl H A-1883 Cl CH <sub>3</sub> F Cl H A-1884 CH <sub>3</sub> CH <sub>3</sub> F Cl H A-1885 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F Cl H A-1885 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F Cl H A-1886 H CH <sub>3</sub> CL Cl H A-1887 F CH <sub>3</sub> Cl Cl H A-1888 Cl CH <sub>3</sub> Cl Cl H A-1889 CH <sub>3</sub> CH <sub>3</sub> Cl Cl H A-1889 CH <sub>3</sub> CH <sub>3</sub> Cl Cl H A-1890 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> Cl Cl H A-1891 H CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> Cl H A-1892 F CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> Cl H A-1893 Cl CH <sub>3</sub> CHF <sub>2</sub> Cl H A-1894 CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> Cl H A-1896 H CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> Cl H A-1897 F CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> Cl H A-1896 H CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> Cl H A-1897 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>4</sub> CH <sub>5</sub> Cl H A-1897 F CH <sub>3</sub> CF <sub>3</sub> Cl H A-1898 Cl CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1899 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1899 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1899 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1890 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1897 F CH <sub>3</sub> CF <sub>3</sub> Cl H A-1898 Cl CH <sub>2</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1899 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1901 H CH <sub>3</sub> SCH <sub>2</sub> Cl H A-1902 F CH <sub>3</sub> SCH <sub>2</sub> Cl H A-1904 CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> Cl H A-1904 CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> Cl H A-1905 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> Cl H A-1906 H CH <sub>3</sub> SCH <sub>2</sub> Cl H A-1907 F CH <sub>3</sub> SCH <sub>2</sub> Cl H A-1906 H CH <sub>3</sub> SCH <sub>2</sub> Cl H A-1907 F CH <sub>3</sub> SCH <sub>2</sub> Cl H A-1907 F CH <sub>3</sub> SCH <sub>2</sub> Cl H A-1908 Cl CH <sub>3</sub> SCH <sub>3</sub> SCF <sub>3</sub> Cl H A-1908 Cl CH <sub>3</sub> SCH <sub>3</sub> SCF <sub>3</sub> Cl H A-1908 Cl CH <sub>3</sub> SCH <sub>3</sub> SCF <sub>3</sub> Cl H A-1908 Cl CH <sub>3</sub> SCF <sub>3</sub> Cl H A-1908 Cl CH <sub>3</sub> SCF <sub>3</sub> Cl H A-1908 Cl CH <sub>3</sub> SCF <sub>3</sub> Cl H B	į	A-1879	CH <sub>3</sub>	CH <sub>3</sub>	OCF <sub>3</sub>	F	H		
15		A-1880	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	OCF <sub>3</sub>	F	H		
A-1883 C1 CH <sub>3</sub> F C1 H A-1884 CH <sub>3</sub> CH <sub>3</sub> F C1 H A-1885 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F C1 H A-1885 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F C1 H A-1886 H CH <sub>3</sub> C1 C1 H A-1887 F CH <sub>3</sub> C1 C1 H A-1888 C1 CH <sub>3</sub> C1 C1 H A-1889 CH <sub>3</sub> CH <sub>3</sub> C1 C1 H A-1889 CH <sub>3</sub> CH <sub>3</sub> C1 C1 H A-1891 H CH <sub>3</sub> CH <sub>2</sub> C1 H A-1892 F CH <sub>3</sub> CH <sub>2</sub> C1 H A-1893 C1 CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1894 CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1895 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1896 H CH <sub>3</sub> CH <sub>2</sub> C1 H A-1896 CH CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1897 F CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1898 C1 CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1896 CH CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> C1 H A-1897 F CH <sub>3</sub> CF <sub>3</sub> C1 H A-1898 C1 CH <sub>3</sub> CF <sub>3</sub> C1 H A-1898 C1 CH <sub>3</sub> CF <sub>3</sub> C1 H A-1899 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H A-1901 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H A-1902 F CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H A-1904 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CCH <sub>2</sub> C1 H A-1905 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CCH <sub>2</sub> C1 H A-1906 H CH <sub>3</sub> CH <sub>3</sub> CCH <sub>2</sub> C1 H A-1907 F CH <sub>3</sub> CH <sub>3</sub> CCH <sub>2</sub> C1 H A-1907 F CH <sub>3</sub> CH <sub>3</sub> CCH <sub>2</sub> C1 H A-1907 F CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>2</sub> C1 H A-1907 F CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>2</sub> C1 H A-1907 F CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>2</sub> C1 H A-1907 F CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>2</sub> C1 H A-1907 F CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>2</sub> C1 H A-1907 F CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>2</sub> C1 H A-1907 F CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>2</sub> C1 H A-1908 C1 CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>4</sub> CCH <sub>3</sub> CCH <sub>2</sub> C1 H CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>2</sub> C1 H CH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>4</sub> CCH <sub>3</sub> CCH <sub>4</sub> CCH <sub>3</sub> CCH <sub>4</sub> CCH <sub>3</sub> CCH <sub>4</sub> CCH <sub>3</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>3</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub>4</sub> CCH <sub></sub>		A-1881	H	CH <sub>3</sub>	F	Cl	H		
A-1884 CH <sub>3</sub> CH <sub>3</sub> F Cl R A-1885 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F Cl R A-1886 B CH <sub>3</sub> CH <sub>3</sub> Cl Cl H A-1887 F CH <sub>3</sub> Cl Cl H A-1888 Cl CH <sub>3</sub> Cl Cl H A-1889 CH <sub>3</sub> CH <sub>3</sub> Cl Cl H A-1890 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> Cl Cl H A-1891 H CH <sub>3</sub> CH <sub>2</sub> Cl H A-1892 F CH <sub>3</sub> CH <sub>2</sub> Cl H A-1893 Cl CH <sub>3</sub> CH <sub>2</sub> Cl H A-1894 CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> Cl H A-1895 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> Cl H A-1896 H CH <sub>3</sub> CH <sub>2</sub> Cl H A-1897 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> Cl H A-1898 Cl CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> Cl H A-1896 H CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> Cl H A-1897 F CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1898 Cl CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1898 Cl CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1898 Cl CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1899 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1890 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1890 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1901 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1901 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1902 F CH <sub>3</sub> SCH <sub>2</sub> Cl H A-1903 Cl CH <sub>3</sub> SCH <sub>2</sub> Cl H A-1904 CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> Cl H A-1905 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> Cl H A-1906 H CH <sub>3</sub> SCH <sub>2</sub> Cl H A-1907 F CH <sub>3</sub> SCH <sub>2</sub> Cl H A-1907 F CH <sub>3</sub> SCH <sub>2</sub> Cl H A-1907 F CH <sub>3</sub> SCH <sub>2</sub> Cl H A-1908 Cl CH <sub>3</sub> SCH <sub>3</sub> SCH <sub>3</sub> Cl H B	15	A-1882	F	CH <sub>3</sub>	F	Cl	H		
A-1885   CH <sub>2</sub> CH <sub>3</sub>   CH <sub>3</sub>   F   C1		A-1883	C1	CH <sub>3</sub>	F	Cl	H		
20		A-1884	CH <sub>3</sub>	CH <sub>3</sub>	F	Cl	H		
A-1887 F CH <sub>3</sub> C1 C1 H A-1888 C1 CH <sub>3</sub> C1 C1 H A-1889 CH <sub>3</sub> CH <sub>3</sub> C1 C1 H A-1889 CH <sub>3</sub> CH <sub>3</sub> C1 C1 H A-1890 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> C1 C1 H A-1891 H CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1892 F CH <sub>3</sub> CH <sub>5</sub> CHF <sub>2</sub> C1 H A-1893 C1 CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1894 CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1895 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1896 H CH <sub>3</sub> CF <sub>3</sub> C1 H A-1897 F CH <sub>3</sub> CF <sub>3</sub> C1 H A-1898 C1 CH <sub>3</sub> CF <sub>3</sub> C1 H A-1899 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H A-1901 H CH <sub>3</sub> CF <sub>3</sub> C1 H A-1902 F CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1903 C1 CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1904 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1905 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1906 H CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1906 H CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1907 F CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1908 C1 CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1908 C1 CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1908 C1 CH <sub>3</sub> SCH <sub>2</sub> C1 H B-1907 F CH <sub>3</sub> SCH <sub>2</sub> C1 H B-1907 F CH <sub>3</sub> SCH <sub>2</sub> C1 H B-1907 F CH <sub>3</sub> SCH <sub>2</sub> C1 H B-1907 F CH <sub>3</sub> SCH <sub>2</sub> C1 H B-1908 C1 CH <sub>3</sub> SCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> C		A-1885	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	F	Cl	H		
A-1888 C1 CH <sub>3</sub> C1 C1 H A-1889 CH <sub>3</sub> CH <sub>3</sub> C1 C1 H A-1890 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> C1 C1 H A-1891 H CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1892 F CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1893 C1 CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1894 CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1895 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1896 H CH <sub>3</sub> CH <sub>3</sub> CH <sub>7</sub> C1 H A-1897 F CH <sub>3</sub> CF <sub>3</sub> C1 H A-1898 C1 CH <sub>3</sub> CF <sub>3</sub> C1 H A-1899 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H A-1901 H CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H A-1902 F CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1904 CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1905 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1906 H CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1906 H CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1907 F CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1908 C1 CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1906 H CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1907 F CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1907 F CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1907 F CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1907 F CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1907 F CH <sub>3</sub> SCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub> CCH <sub>3</sub>	20	A-1886	В	CH <sub>3</sub>	Cl	Cl	H		
A-1889 CH <sub>3</sub> CH <sub>3</sub> C1 C1 H A-1890 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> C1 C1 H A-1891 H CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1892 F CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1893 C1 CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1894 CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1895 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1896 H CH <sub>3</sub> CF <sub>3</sub> C1 H A-1897 F CH <sub>3</sub> CF <sub>3</sub> C1 H A-1898 C1 CH <sub>3</sub> CF <sub>3</sub> C1 H A-1899 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H A-1901 H CH <sub>3</sub> CF <sub>3</sub> C1 H A-1902 F CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1903 C1 CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1904 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1905 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1906 H CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1907 F CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1907 F CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1907 F CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1907 F CH <sub>3</sub> SCF <sub>3</sub> C1 H A-1908 C1 CH <sub>3</sub> SCF <sub>3</sub> C1 H		A-1887	F	CH <sub>3</sub>	Cl	Cl	H		
A-1890 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> C1 C1 H A-1891 H CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1892 F CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1893 C1 CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1894 CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1895 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1896 H CH <sub>3</sub> CF <sub>3</sub> C1 H A-1897 F CH <sub>3</sub> CF <sub>3</sub> C1 H A-1898 C1 CH <sub>3</sub> CF <sub>3</sub> C1 H A-1899 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H A-1901 H CH <sub>3</sub> CF <sub>3</sub> C1 H A-1902 F CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1903 C1 CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1904 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1905 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1906 H CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1906 H CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1907 F CH <sub>3</sub> SCF <sub>3</sub> C1 H A-1907 F CH <sub>3</sub> SCF <sub>3</sub> C1 H A-1907 F CH <sub>3</sub> SCF <sub>3</sub> C1 H A-1908 C1 CH <sub>3</sub> SCF <sub>3</sub> C1 H A-1908 C1 CH <sub>3</sub> SCF <sub>3</sub> C1 H A-1908 C1 CH <sub>3</sub> SCF <sub>3</sub> C1 H A-1908 C1 CH <sub>3</sub> SCF <sub>3</sub> C1 H A-1908 C1 CH <sub>3</sub> SCF <sub>3</sub> C1 H A-1908 C1 CH <sub>3</sub> SCF <sub>3</sub> C1 H A-1908 C1 CH <sub>3</sub> SCF <sub>3</sub> C1 H A-1908 C1 CH <sub>3</sub> SCF <sub>3</sub> C1 H A-1908 C1 CH <sub>3</sub> SCF <sub>3</sub> C1 H A-1908 C1 CH <sub>3</sub> SCF <sub>3</sub> C1 H		A-1888	Cl	CH <sub>3</sub>	Cl	Cl	H		
A-1891 H CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1892 F CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1893 C1 CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1894 CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1895 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1896 H CH <sub>3</sub> CF <sub>3</sub> C1 H A-1897 F CH <sub>3</sub> CF <sub>3</sub> C1 H A-1898 C1 CH <sub>3</sub> CF <sub>3</sub> C1 H A-1899 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H A-1901 H CH <sub>3</sub> CF <sub>3</sub> C1 H A-1902 F CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1903 C1 CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1904 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1905 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1906 H CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1907 F CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1907 F CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1908 C1 CH <sub>3</sub> SCH <sub>2</sub> C1 H A-1908 C1 CH <sub>3</sub> SCH <sub>3</sub> SCH <sub>3</sub> C1 H A-1908 C1 CH <sub>3</sub> SCH <sub>3</sub> SCH <sub>3</sub> C1 H A-1908 C1 CH <sub>3</sub> SCH <sub>3</sub> SCH <sub>3</sub> C1 H A-1908 C1 CH <sub>3</sub> SCH <sub>3</sub> SCH <sub>3</sub> C1 H A-1908 C1 CH <sub>3</sub> SCH <sub>3</sub> SCH <sub>3</sub> C1 H A-1908 C1 CH <sub>3</sub> SCF <sub>3</sub> C1 H		A-1889	СН3	CH <sub>3</sub>	Cl	Cl	H		
A-1891	25	A-1890	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	Cl	Cl	H		
A-1893 C1 CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1894 CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1895 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> C1 H A-1896 H CH <sub>3</sub> CF <sub>3</sub> C1 H A-1897 F CH <sub>3</sub> CF <sub>3</sub> C1 H A-1898 C1 CH <sub>3</sub> CF <sub>3</sub> C1 H A-1899 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H A-1901 H CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1902 F CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1903 C1 CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1904 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1905 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1906 H CH <sub>3</sub> SCHF <sub>2</sub> C1 H A-1907 F CH <sub>3</sub> SCF <sub>3</sub> C1 H A-1907 F CH <sub>3</sub> SCF <sub>3</sub> C1 H A-1908 C1 CH <sub>3</sub> SCF <sub>3</sub> C1 H A-1908 C1 CH <sub>3</sub> SCF <sub>3</sub> C1 H A-1908 C1 CH <sub>3</sub> SCF <sub>3</sub> C1 H A-1908 C1 CH <sub>3</sub> SCF <sub>3</sub> C1 H A-1908 C1 CH <sub>3</sub> SCF <sub>3</sub> C1 H A-1908 C1 CH <sub>3</sub> SCF <sub>3</sub> C1 H		A-1891	H	CH <sub>3</sub>	CHF <sub>2</sub>				
A-1894 CB <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> C1 H  A-1895 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> C1 H  A-1896 H CH <sub>3</sub> CF <sub>3</sub> C1 H  A-1897 F CH <sub>3</sub> CF <sub>3</sub> C1 H  A-1898 C1 CH <sub>3</sub> CF <sub>3</sub> C1 H  A-1899 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H  A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H  A-1901 H CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H  A-1902 F CH <sub>3</sub> SCHF <sub>2</sub> C1 H  A-1904 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> C1 H  A-1905 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> C1 H  A-1906 H CH <sub>3</sub> SCH <sub>2</sub> C1 H  A-1907 F CH <sub>3</sub> SCF <sub>3</sub> C1 H  A-1908 C1 CH <sub>3</sub> SCF <sub>3</sub> C1 H  A-1908 C1 CH <sub>3</sub> SCF <sub>3</sub> C1 H  A-1908 C1 CH <sub>3</sub> SCF <sub>3</sub> C1 H  A-1908 C1 CH <sub>3</sub> SCF <sub>3</sub> C1 H		A-1892	F	CH <sub>3</sub>	CHF <sub>2</sub>	Cl	H		
A-1895		A-1893	C1	CH3	CHF <sub>2</sub>	Cl	H		
A-1895 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1896 H CH <sub>3</sub> CF <sub>3</sub> Cl H A-1897 F CH <sub>3</sub> CF <sub>3</sub> Cl H A-1898 Cl CH <sub>3</sub> CF <sub>3</sub> Cl H A-1899 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1901 H CH <sub>3</sub> SCHF <sub>2</sub> Cl H A-1902 F CH <sub>3</sub> SCHF <sub>2</sub> Cl H A-1903 Cl CH <sub>3</sub> SCHF <sub>2</sub> Cl H A-1904 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> Cl H A-1905 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> Cl H A-1906 H CH <sub>3</sub> SCHF <sub>2</sub> Cl H A-1907 F CH <sub>3</sub> SCHF <sub>2</sub> Cl H A-1907 F CH <sub>3</sub> SCF <sub>3</sub> Cl H A-1908 Cl CH <sub>3</sub> SCF <sub>3</sub> Cl H		A-1894	CH <sub>3</sub>	CH <sub>3</sub>	CHF <sub>2</sub>	c1	H		
A-1897 F CH <sub>3</sub> CF <sub>3</sub> Cl H A-1898 Cl CH <sub>3</sub> CF <sub>3</sub> Cl H A-1899 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1901 H CH <sub>3</sub> SCHF <sub>2</sub> Cl H A-1902 F CH <sub>3</sub> SCHF <sub>2</sub> Cl H A-1903 Cl CH <sub>3</sub> SCHF <sub>2</sub> Cl H A-1904 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> Cl H A-1905 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> Cl H A-1906 H CH <sub>3</sub> SCHF <sub>2</sub> Cl H A-1907 F CH <sub>3</sub> SCF <sub>3</sub> Cl H A-1908 Cl CH <sub>3</sub> SCF <sub>3</sub> Cl H	30	A-1895	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	CHF <sub>2</sub>		H		
A-1898 C1 CH <sub>3</sub> CF <sub>3</sub> C1 H  A-1899 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H  A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> C1 H  A-1901 H CH <sub>3</sub> SCHF <sub>2</sub> C1 H  A-1902 F CH <sub>3</sub> SCHF <sub>2</sub> C1 H  A-1903 C1 CH <sub>3</sub> SCHF <sub>2</sub> C1 H  A-1904 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> C1 H  A-1905 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> C1 H  A-1906 H CH <sub>3</sub> SCHF <sub>2</sub> C1 H  A-1907 F CH <sub>3</sub> SCF <sub>3</sub> C1 H  A-1908 C1 CH <sub>3</sub> SCF <sub>3</sub> C1 H		A-1896	Ħ	CH <sub>3</sub>	CF <sub>3</sub>	Cl			
35 A-1899 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H A-1901 H CH <sub>3</sub> SCHF <sub>2</sub> Cl H A-1902 F CH <sub>3</sub> SCHF <sub>2</sub> Cl H A-1903 Cl CH <sub>3</sub> SCHF <sub>2</sub> Cl H A-1904 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> Cl H A-1905 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> Cl H A-1906 H CH <sub>3</sub> SCHF <sub>2</sub> Cl H A-1907 F CH <sub>3</sub> SCF <sub>3</sub> Cl H A-1908 Cl CH <sub>3</sub> SCF <sub>3</sub> Cl H		A-1897	F	CH3	CF <sub>3</sub>				
A-1900 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> Cl H  A-1901 H CH <sub>3</sub> SCHF <sub>2</sub> Cl H  A-1902 F CH <sub>3</sub> SCHF <sub>2</sub> Cl H  A-1903 Cl CH <sub>3</sub> SCHF <sub>2</sub> Cl H  A-1904 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> Cl H  A-1905 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> Cl H  A-1906 H CH <sub>3</sub> SCHF <sub>2</sub> Cl H  A-1907 F CH <sub>3</sub> SCF <sub>3</sub> Cl H  A-1908 Cl CH <sub>3</sub> SCF <sub>3</sub> Cl H		A-1898	Cl	CH3	CF <sub>3</sub>		H		
A-1901 H CH <sub>3</sub> SCHF <sub>2</sub> Cl H A-1902 F CH <sub>3</sub> SCHF <sub>2</sub> Cl H A-1903 Cl CH <sub>3</sub> SCHF <sub>2</sub> Cl H A-1904 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> Cl H A-1905 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> Cl H A-1906 H CH <sub>3</sub> SCF <sub>3</sub> Cl H A-1907 F CH <sub>3</sub> SCF <sub>3</sub> Cl H A-1908 Cl CH <sub>3</sub> SCF <sub>3</sub> Cl H	35	A-1899	CH <sub>3</sub>	CH <sub>3</sub>	CF <sub>3</sub>	Cl	H		
A-1902 F CH <sub>3</sub> SCHF <sub>2</sub> Cl H  A-1903 Cl CH <sub>3</sub> SCHF <sub>2</sub> Cl H  A-1904 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> Cl H  A-1905 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> Cl H  A-1906 H CH <sub>3</sub> SCF <sub>3</sub> Cl H  A-1907 F CH <sub>3</sub> SCF <sub>3</sub> Cl H  A-1908 Cl CH <sub>3</sub> SCF <sub>3</sub> Cl H		A-1900	CH <sub>2</sub> CH <sub>3</sub>	CH3					
A-1903 C1 CH <sub>3</sub> SCHF <sub>2</sub> C1 H  A-1904 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> C1 H  A-1905 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> C1 H  A-1906 H CH <sub>3</sub> SCF <sub>3</sub> C1 H  A-1907 F CH <sub>3</sub> SCF <sub>3</sub> C1 H  A-1908 C1 CH <sub>3</sub> SCF <sub>3</sub> C1 H		A-1901	H	CH3	SCHF <sub>2</sub>				
A-1904 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> Cl H  A-1905 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> Cl H  A-1906 H CH <sub>3</sub> SCF <sub>3</sub> Cl H  A-1907 F CH <sub>3</sub> SCF <sub>3</sub> Cl H  A-1908 Cl CH <sub>3</sub> SCF <sub>3</sub> Cl H		A-1902	F	CH <sub>3</sub>	SCHF <sub>2</sub>				
A-1905 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> Cl H  A-1906 H CH <sub>3</sub> SCF <sub>3</sub> Cl H  A-1907 F CH <sub>3</sub> SCF <sub>3</sub> Cl H  A-1908 Cl CH <sub>3</sub> SCF <sub>3</sub> Cl H	40	A-1903	cl	CH <sub>3</sub>					
A-1906 H CH <sub>3</sub> SCF <sub>3</sub> Cl H A-1907 F CH <sub>3</sub> SCF <sub>3</sub> Cl H A-1908 Cl CH <sub>3</sub> SCF <sub>3</sub> Cl H	•	A-1904	CH <sub>3</sub>	CH <sub>3</sub>	SCHF <sub>2</sub>				
A-1907 F CH <sub>3</sub> SCF <sub>3</sub> Cl H A-1908 Cl CH <sub>3</sub> SCF <sub>3</sub> Cl H		A-1905	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>					
45 A-1908 C1 CH <sub>3</sub> SCF <sub>3</sub> C1 H		A-1906	H	CH <sub>3</sub>					
A-1908 C1 CH <sub>3</sub> SCF <sub>3</sub> C1 H	45	<u> </u>		_ <del>_</del>					
A-1909 CH <sub>3</sub> CH <sub>3</sub> SCF <sub>3</sub> Cl H	23	A-1908							
		A-1909	CH <sub>3</sub>		SCF <sub>3</sub>	T <sub>C1</sub>	H		





N	io.	R <sup>1</sup>	R <sup>2</sup>	$\mathbb{R}^{11}$	R <sup>12</sup>	R <sup>13</sup>
Z	A-1910	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	SCF <sub>3</sub>	Cl	H
1	A-1911	H	CH <sub>3</sub>	OCHF <sub>2</sub>	Cl	Н
5 7	A-1912	F	CH <sub>3</sub>	OCHF <sub>2</sub>	Cl	н
1	A-1913	Cl	CH <sub>3</sub>	OCHF <sub>2</sub>	Cl	H
1	A-1914	CH <sub>3</sub>	CH₃	OCHF <sub>2</sub>	Cl	Н
1	A-1915	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	OCHF <sub>2</sub>	Cl	H
	A-1916	H	CH <sub>3</sub>	OCF <sub>3</sub>	Cl	H
10	A-1917	F	CH <sub>3</sub>	OCF <sub>3</sub>	Cl	H
1	A-1918	Cl	CH <sub>3</sub>	OCF <sub>3</sub>	Cl	田
Ţ	A-1919	CH <sub>3</sub>	CH <sub>3</sub>	OCF <sub>3</sub>	Cl	H
Ţ.	A-1920	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	OCF <sub>3</sub>	Cl	H
15	A-1921	H	CH <sub>3</sub>	F	CHF <sub>2</sub>	H
Ī	A-1922	F	CH <sub>3</sub>	F	CHF <sub>2</sub>	H
Ì	A-1923	Cl	CH₃	F	CHF <sub>2</sub>	н
Ī	A-1924	CH <sub>3</sub>	CH <sub>3</sub>	F	CHF <sub>2</sub>	H
20	A-1925	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	F	CHF <sub>2</sub>	H
	A-1926	Н	CH <sub>3</sub>	Cl	CHF <sub>2</sub>	Н
·	A-1927	F	CH <sub>3</sub>	Cl	CHF <sub>2</sub>	H
	A-1928	Cl	CH <sub>3</sub>	Cl	CHF <sub>2</sub>	H
25	A-1929	CH <sub>3</sub>	CH <sub>3</sub>	Cl	CHF <sub>2</sub>	H
23	A-1930	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	Cl	CHF <sub>2</sub>	H
	A-1931	Ħ	CH <sub>3</sub>	CHF <sub>2</sub>	CHF <sub>2</sub>	H
	A-1932	F	CH <sub>3</sub>	CHF <sub>2</sub>	CHF <sub>2</sub>	H
	A-1933	Cl	CH <sub>3</sub>	CHF <sub>2</sub>	CHF <sub>2</sub>	H
30	A-1934	CH <sub>3</sub>	CH3	CHF <sub>2</sub>	CHF <sub>2</sub>	H
	A-1935	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	CHF <sub>2</sub>	CHF <sub>2</sub>	H
	A-1936	H	СН3	CF <sub>3</sub>	CHF <sub>2</sub>	H
	A-1937	F	CH <sub>3</sub>	CF <sub>3</sub>	CHF <sub>2</sub>	н
35	A-1938	Cl	CH <sub>3</sub>	CF <sub>3</sub>	CHF <sub>2</sub>	H
	A-1939	CH <sub>3</sub>	CH <sub>3</sub>	CF <sub>3</sub>	CHF <sub>2</sub>	H
	A-1940	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	CF <sub>3</sub>	CHF <sub>2</sub>	H
	A-1941	н	CH <sub>3</sub>	SCHF <sub>2</sub>	CHF <sub>2</sub>	H
40	A-1942	F	CH <sub>3</sub>	SCHF <sub>2</sub>	CHF <sub>2</sub>	Ħ
-	A-1943	Cl	CH <sub>3</sub>	SCHF <sub>2</sub>	CHF <sub>2</sub>	H
	A-1944	CH <sub>3</sub>	CH <sub>3</sub>	SCHF <sub>2</sub>	CHF <sub>2</sub>	H
	A-1945	CH <sub>2</sub> CH <sub>3</sub>	CH3	SCHF <sub>2</sub>	CHF <sub>2</sub>	H
	A-1946	H	CH3	SCF <sub>3</sub>	CHF <sub>2</sub>	H
45	A-1947	F	CH3	SCF <sub>3</sub>	CHF <sub>2</sub>	H
	A-1948	Cl	CH <sub>3</sub>	SCF <sub>3</sub>	CHF <sub>2</sub>	
	A-1948	Cl	CH <sub>3</sub>	SCF <sub>3</sub>	CHF <sub>2</sub>	

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No. R1 R2 R2 R11 R12 R13  A-1949 CH3 CH3 CH3 SCF3 CHF2 H  A-1950 CH2CH5 CH3 SCF3 CHF2 H  A-1951 H CB3 OCHF2 CHF2 H  A-1951 H CB3 OCHF2 CHF2 H  A-1952 F CH3 OCHF2 CHF2 H  A-1953 C1 CH3 OCHF2 CHF2 H  A-1954 CH3 CH3 OCHF2 CHF2 H  A-1955 CH2CH3 CH3 OCHF2 CHF2 H  A-1955 CH2CH3 CH3 OCHF2 CHF2 H  A-1956 H CB3 OCF3 CHF2 H  A-1957 F CB3 OCF3 CHF2 H  A-1958 C1 CR3 OCF3 CHF2 H  A-1959 CH3 CH3 OCF3 CHF2 H  A-1959 CH3 CH3 OCF3 CHF2 H  A-1960 CH2CH3 CH3 OCF3 CHF2 H  A-1961 H CB3 F CF3 H  A-1962 F CB3 F CF3 H  A-1964 CH3 CH3 F CF3 H  A-1965 CH2CH3 CH3 F CF3 H  A-1966 CH2CH3 CH3 F CF3 H  A-1967 F CH3 CH3 C1 CF3 H  A-1968 C1 CH3 CH3 F CF3 H  A-1968 C1 CH3 CH3 C1 CF3 H  A-1969 CH3 CH3 CH3 C1 CF3 H  A-1970 CH2CH3 CH3 C1 CF3 H  A-1971 H CH3 CH3 CH5 CH7 CF3 H  A-1971 CH2CH3 CH3 CH5 CH7 CF3 H  A-1974 CH3 CH3 CH3 CH7 CF3 H  A-1975 CH2CH3 CH3 CH5 CH7 CF3 H  A-1976 CH3 CH3 CH5 CH7 CF3 H  A-1977 F CH3 CH5 CH7 CF3 H  A-1978 C1 CH3 CH7 CF3 H  A-1971 CH3 CH5 CH5 CH5 CH5 CH5 H  A-1971 CH3 CH5 CH5 CH5 CH5 CH5 CH5 CH5 H  A-1971 CH3 CH5 CH5 CH5 CH5 CH5 CH5 CH5 CH5 CH5 CH5						-12	
A-1950	L						
A-1951         H         CH3         OCHF2         CHF2         H           A-1952         F         CH3         OCHF2         CHF2         H           A-1953         Cl         CH3         OCHF2         CHF2         H           A-1954         CH3         CH3         OCHF2         CHF2         H           A-1955         CH2CH3         CH3         OCH72         CHF2         H           A-1956         H         CH3         OCF3         CHF2         H           A-1957         F         CH3         OCF3         CHF2         H           A-1957         F         CH3         OCF3         CHF2         H           A-1956         CH3         CH3         OCF3         CHF2         H           A-1950         CH3         CH3         OCF3         CHF2         H           A-1960         CH2CH3         CH3         OCF3         CHF2         H           A-1961         H         CH3         F         CF3         H           A-1962         F         CH3         F         CF3         H           A-1961         H         CH3         F         CF3         H	L						H
A-1952   F			CH <sub>2</sub> CH <sub>3</sub>			CHF <sub>2</sub>	H
A-1953 C1 CH <sub>3</sub> OCHF <sub>2</sub> CHF <sub>2</sub> H A-1954 CE <sub>3</sub> CE <sub>3</sub> OCHF <sub>2</sub> CHF <sub>2</sub> H A-1955 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCHF <sub>2</sub> CHF <sub>2</sub> H A-1955 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCHF <sub>2</sub> CHF <sub>2</sub> H A-1956 H CH <sub>3</sub> OCF <sub>3</sub> CHF <sub>2</sub> H A-1957 F CH <sub>3</sub> OCF <sub>3</sub> CHF <sub>2</sub> H A-1958 C1 CH <sub>3</sub> OCF <sub>3</sub> CHF <sub>2</sub> H A-1959 CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CHF <sub>2</sub> H A-1960 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CHF <sub>2</sub> H A-1961 H CH <sub>3</sub> F CF <sub>3</sub> H A-1962 F CH <sub>3</sub> F CF <sub>3</sub> H A-1963 C1 CH <sub>3</sub> F CF <sub>3</sub> H A-1964 CH <sub>3</sub> CH <sub>3</sub> F CF <sub>3</sub> H A-1965 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F CF <sub>3</sub> H A-1966 H CH <sub>3</sub> CH <sub>3</sub> F CF <sub>3</sub> H A-1966 CH CH <sub>3</sub> CH <sub>3</sub> C1 CF <sub>3</sub> H A-1967 F CH <sub>3</sub> C1 CF <sub>3</sub> H A-1968 C1 CH <sub>3</sub> C1 CF <sub>3</sub> H A-1969 CH <sub>3</sub> CH <sub>3</sub> C1 CF <sub>3</sub> H A-1970 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> C1 CF <sub>3</sub> H A-1971 H CH <sub>3</sub> CHF <sub>2</sub> CF <sub>3</sub> H A-1971 CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> CF <sub>3</sub> H A-1974 CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> CF <sub>3</sub> H A-1975 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> CF <sub>3</sub> H A-1976 H CH <sub>3</sub> CH <sub>2</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1977 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> CF <sub>3</sub> H A-1978 C1 CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> CF <sub>3</sub> H A-1979 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> CF <sub>3</sub> H A-1979 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> CF <sub>3</sub> H A-1979 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> CF <sub>3</sub> H A-1979 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> CF <sub>3</sub> H A-1970 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> CF <sub>3</sub> H A-1971 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> CF <sub>3</sub> H A-1975 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> CF <sub>3</sub> H A-1976 H CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> H A-1976 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> H A-1977 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> H A-1978 C1 CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> H A-1979 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1970 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1970 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1970 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1976 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1976 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> H A-1980 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1980 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1980 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> H A-1981 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> H A-1982 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> H A-1984 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> H A-1986 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> H A-1986 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1986 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> H A-1986 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> H A-1986 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub>	<u>ا</u> د					CHF <sub>2</sub>	H
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A-1955	_ {	A-1953	Cl	CH <sub>3</sub>	OCHF <sub>2</sub>	CHF <sub>2</sub>	H
A-1956	{	A-1954	CH <sub>3</sub>	CH <sub>3</sub>	OCHF <sub>2</sub>	CHF <sub>2</sub>	H
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A-1959	[	A-1957	F	CH <sub>3</sub>	OCF <sub>3</sub>	CHF <sub>2</sub>	H
15	[	A-1958	Cl	CH <sub>3</sub>	OCF <sub>3</sub>	CHF <sub>2</sub>	H
A-1961 H CH <sub>3</sub> F CF <sub>3</sub> H A-1962 F CH <sub>3</sub> F CF <sub>3</sub> H A-1963 CL CH <sub>3</sub> F CF <sub>3</sub> H A-1964 CH <sub>3</sub> CH <sub>3</sub> F CF <sub>3</sub> H A-1965 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F CF <sub>3</sub> H A-1966 H CH <sub>3</sub> CL CH <sub>3</sub> F CF <sub>3</sub> H A-1967 F CH <sub>3</sub> CL CF <sub>3</sub> H A-1968 CL CH <sub>3</sub> CL CF <sub>3</sub> H A-1969 CH <sub>3</sub> CH <sub>3</sub> CL CF <sub>3</sub> H A-1970 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CL CF <sub>3</sub> H A-1971 H CH <sub>3</sub> CL CF <sub>3</sub> H A-1972 F CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CF <sub>3</sub> H A-1974 CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> H A-1975 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> H A-1976 H CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> H A-1977 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> H A-1977 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> H A-1977 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> H A-1977 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> H A-1978 CL CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> H A-1979 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1979 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1970 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1970 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1970 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1970 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1970 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1970 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1970 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1970 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1970 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1970 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1970 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1970 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1970 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1970 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1980 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1981 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> CF <sub>3</sub> H A-1982 F CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> CF <sub>3</sub> H A-1984 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> CF <sub>3</sub> H A-1985 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> CF <sub>3</sub> H A-1986 H CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> CF <sub>3</sub> CF <sub>3</sub> H	I	A-1959	CH <sub>3</sub>	CH <sub>3</sub>	OCF <sub>3</sub>	CHF <sub>2</sub>	H
A-1962 F CH <sub>3</sub> F CF <sub>3</sub> B A-1963 C1 CH <sub>3</sub> F CF <sub>3</sub> B A-1964 CH <sub>3</sub> CH <sub>3</sub> F CF <sub>3</sub> B A-1965 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F CF <sub>3</sub> B A-1966 H CH <sub>3</sub> C1 CF <sub>3</sub> B A-1967 F CH <sub>3</sub> C1 CF <sub>3</sub> B A-1968 C1 CH <sub>3</sub> C1 CF <sub>3</sub> B A-1969 CH <sub>3</sub> CH <sub>3</sub> C1 CF <sub>3</sub> B A-1970 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> C1 CF <sub>3</sub> B A-1971 B CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> B A-1973 C1 CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> B A-1974 CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> B A-1975 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> B A-1976 H CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> B A-1977 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> B A-1978 C1 CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> B A-1979 CH <sub>3</sub> CH <sub>3</sub> CH <sub>4</sub> CF <sub>3</sub> CF <sub>3</sub> B A-1979 CH <sub>3</sub> CH <sub>3</sub> CH <sub>4</sub> CF <sub>3</sub> CF <sub>3</sub> B A-1978 C1 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> B A-1979 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> B A-1979 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> B A-1979 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> B A-1979 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> B A-1980 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> B A-1981 H CH <sub>3</sub> SCH <sub>2</sub> CF <sub>3</sub> H A-1982 F CH <sub>3</sub> SCH <sub>2</sub> CF <sub>3</sub> H A-1984 CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> CF <sub>3</sub> B A-1985 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> CF <sub>3</sub> H A-1986 H CH <sub>3</sub> SCH <sub>2</sub> CF <sub>3</sub> H	15	A-1960	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	OCF <sub>3</sub>	CHF <sub>2</sub>	H
A-1963 C1 CH <sub>3</sub> F CF <sub>3</sub> B A-1964 CH <sub>3</sub> CH <sub>3</sub> F CF <sub>3</sub> B A-1965 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F CF <sub>3</sub> B A-1966 H CH <sub>3</sub> C1 CF <sub>3</sub> B A-1967 F CH <sub>3</sub> C1 CF <sub>3</sub> B A-1968 C1 CH <sub>3</sub> C1 CF <sub>3</sub> B A-1969 CH <sub>3</sub> CH <sub>3</sub> C1 CF <sub>3</sub> B A-1970 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> C1 CF <sub>3</sub> B A-1971 B CH <sub>3</sub> CH <sub>3</sub> C1 CF <sub>3</sub> B A-1972 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> B A-1973 C1 CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> B A-1974 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> B A-1975 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> B A-1976 B CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> B A-1977 F CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> B A-1978 C1 CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> B A-1979 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> B A-1979 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> B A-1980 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> B A-1981 H CH <sub>3</sub> CH <sub>3</sub> CCF <sub>3</sub> CF <sub>3</sub> B A-1983 C1 CH <sub>3</sub> CH <sub>3</sub> CCF <sub>2</sub> CF <sub>3</sub> B A-1984 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> CF <sub>3</sub> B A-1985 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>2</sub> CF <sub>3</sub> B A-1986 H CH <sub>3</sub> SCH <sub>2</sub> CF <sub>3</sub> H	1	A-1961	H	CH <sub>3</sub>	F	CF <sub>3</sub>	Ħ
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A-1965		A-1963	Cl	CH <sub>3</sub>	F	CF <sub>3</sub>	H
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A-1973 C1 CH <sub>3</sub> CHF <sub>2</sub> CF <sub>3</sub> H A-1974 CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> H A-1975 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> H A-1976 H CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1977 F CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1978 C1 CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1979 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1980 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1981 H CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1982 F CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1983 C1 CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1984 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1985 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1986 H CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1986 H CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H		A-1971	H	CH <sub>3</sub>	CHF <sub>2</sub>	CF <sub>3</sub>	н
A-1973 C1 CH <sub>3</sub> CH <sub>2</sub> CF <sub>3</sub> H A-1974 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> CF <sub>3</sub> H A-1975 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>5</sub> CF <sub>2</sub> CF <sub>3</sub> H A-1976 H CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1977 F CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1978 C1 CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1979 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1980 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1981 H CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1982 F CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1984 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1985 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1986 H CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1986 H CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H		A-1972	F	CH <sub>3</sub>	CHF <sub>2</sub>	CF <sub>3</sub>	н
A-1975 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>7</sub> CF <sub>3</sub> E  A-1976 H CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H  A-1977 F CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H  A-1978 Cl CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H  A-1979 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H  A-1980 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H  A-1981 H CH <sub>3</sub> SCH <sub>7</sub> CF <sub>3</sub> H  A-1982 F CH <sub>3</sub> SCH <sub>7</sub> CF <sub>3</sub> H  A-1983 Cl CH <sub>3</sub> SCH <sub>7</sub> CF <sub>3</sub> H  A-1984 CH <sub>3</sub> CH <sub>3</sub> SCH <sub>7</sub> CF <sub>3</sub> H  A-1985 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCH <sub>7</sub> CF <sub>3</sub> H  A-1986 H CH <sub>3</sub> SCH <sub>7</sub> CF <sub>3</sub> H  A-1986 H CH <sub>3</sub> SCH <sub>7</sub> CF <sub>3</sub> H	30	A-1973	Cl	CH <sub>3</sub>	CHF <sub>2</sub>	CF <sub>3</sub>	Н
A-1976 H CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H  A-1977 F CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H  A-1978 Cl CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H  A-1979 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H  A-1980 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H  A-1981 H CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H  A-1982 F CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H  A-1983 Cl CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H  A-1984 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H  A-1985 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H  A-1986 H CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H		A-1974	CH <sub>3</sub>	CH <sub>3</sub>	CHF <sub>2</sub>	CF <sub>3</sub>	н
A-1977 F CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H  A-1978 Cl CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H  A-1979 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H  A-1980 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H  A-1981 H CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H  A-1982 F CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H  A-1983 Cl CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H  A-1984 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H  A-1985 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H  A-1986 H CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H		A-1975	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	CHF <sub>2</sub>	CF <sub>3</sub>	H
A-1978 C1 CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H  A-1979 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H  A-1980 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H  A-1981 H CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H  A-1982 F CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H  A-1983 C1 CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H  A-1984 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H  A-1985 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H  A-1986 H CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H		A-1976	B	CH3	CF <sub>3</sub>	CF <sub>3</sub>	H
A-1979 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1980 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H A-1981 H CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1982 F CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1983 Cl CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1984 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1985 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1986 H CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H	35	A-1977	F	CH <sub>3</sub>	·		
A-1980 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> H  A-1981 H CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H  A-1982 F CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H  A-1983 C1 CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H  A-1984 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H  A-1985 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H  A-1986 H CH <sub>3</sub> SCF <sub>3</sub> CF <sub>3</sub> H		A-1978	Cl	CH <sub>3</sub>	CF <sub>3</sub>	CF <sub>3</sub>	H
40 A-1981 H CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1982 F CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1983 Cl CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1984 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1985 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1986 H CH <sub>3</sub> SCH <sub>2</sub> CF <sub>3</sub> H		A-1979	CH <sub>3</sub>	CH <sub>3</sub>	CF <sub>3</sub>	CF <sub>3</sub>	H
A-1982 F CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1983 Cl CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1984 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1985 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1986 H CH <sub>3</sub> SCF <sub>3</sub> CF <sub>3</sub> H		A-1980	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	CF <sub>3</sub>	CF <sub>3</sub>	H
A-1983 C1 CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1984 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1985 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H A-1986 H CH <sub>3</sub> SCF <sub>3</sub> CF <sub>3</sub> H	40	A-1981	H	CH <sub>3</sub>	SCHF <sub>2</sub>	CF <sub>3</sub>	H
A-1984 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H  A-1985 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> H  A-1986 H CH <sub>3</sub> SCF <sub>3</sub> CF <sub>3</sub> H		A-1982	F	CH <sub>3</sub>	SCHF <sub>2</sub>	CF <sub>3</sub>	B
45 A-1986 H CH <sub>3</sub> SCH <sub>2</sub> CF <sub>3</sub> H  CH <sub>3</sub> SCF <sub>3</sub> CF <sub>3</sub> H		A-1983	Cl	CH <sub>3</sub>	SCHF <sub>2</sub>	CF <sub>3</sub>	Ħ
45 A-1986 H CH <sub>3</sub> SCF <sub>3</sub> CF <sub>3</sub> H		A-1984	CH <sub>3</sub>	CH <sub>3</sub>	SCHF <sub>2</sub>	CF <sub>3</sub>	H
A-1986 H CH <sub>3</sub> SCF <sub>3</sub> CF <sub>3</sub> H	AE	A-1985	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	SCHF <sub>2</sub>	CF <sub>3</sub>	H
A-1987 F CH <sub>3</sub> SCF <sub>3</sub> CF <sub>3</sub> H	45	A-1986	H	CH <sub>3</sub>	SCF <sub>3</sub>	CF <sub>3</sub>	H
		A-1987	F	CH <sub>3</sub>	SCF <sub>3</sub>	CF <sub>3</sub>	H

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Γ	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R <sup>12</sup>	R13
_ L			CH <sub>3</sub>	SCF <sub>3</sub>	CF <sub>3</sub>	H
L					CF <sub>3</sub>	H
-			CH <sub>3</sub>	SCF <sub>3</sub>	CF <sub>3</sub>	H
- P				OCHF <sub>2</sub>	CF <sub>3</sub>	H
			CH <sub>3</sub>	OCHF <sub>2</sub>	CF <sub>3</sub>	H
1	A-1993		CH <sub>3</sub>	OCHF <sub>2</sub>	CF <sub>3</sub>	H
1	A-1994		CH <sub>3</sub>	OCHF <sub>2</sub>	CF <sub>3</sub>	H
10	A-1995		CH <sub>3</sub>	OCHF <sub>2</sub>	CF <sub>3</sub>	H
	A-1996		CH <sub>3</sub>	OCF <sub>3</sub>	CF <sub>3</sub>	H
	A-1997		CH <sub>3</sub>	OCF3	CF <sub>3</sub>	H
	A-1998	Cl	CH₃	OCF <sub>3</sub>	CF <sub>3</sub>	H
15	A-1999	CH <sub>3</sub>	CH <sub>3</sub>	OCF <sub>3</sub>	CF <sub>3</sub>	H
	A-2000	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	OCF <sub>3</sub>	CF <sub>3</sub>	H
	A-2001	н	CH <sub>3</sub>	F	н	F
	A-2002	F	CH <sub>3</sub>	F	H	F
20	A-2003	C1	CH <sub>3</sub>	F	Ħ	F
	A-2004	CH <sub>3</sub>	CH <sub>3</sub>	F	Ħ	F
	A-2005	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	F	Ħ	F
	A-2006	Ħ	CH <sub>3</sub>	Cl	H	F
25	A-2007	F	CH₃	Cl	H	F
23	A-2008	Cl	CH <sub>3</sub>	Cl	H	F
	A-2009	CH <sub>3</sub>	CH <sub>3</sub>	Cl	H	F
	A-2010	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	Cl	H	F
	A-2011	н	CH <sub>3</sub>	CHF <sub>2</sub>	H	F
30	A-2012	F	CH <sub>3</sub>	CHF <sub>2</sub>	H	F
	A-2013	Cl	CH <sub>3</sub>	CHF <sub>2</sub>	H	F
	A-2014	CH <sub>3</sub>	CH3	CHF <sub>2</sub>	H	F
	A-2015	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	CHF <sub>2</sub>	H	F
35	A-2016	H	CH3	CF <sub>3</sub>	H	F
	A-2017	F	CH <sub>3</sub>	CF <sub>3</sub>	H	F
	A-2018	Cl	CH <sub>3</sub>	CF <sub>3</sub>	H	F
	A-2019	CH <sub>3</sub>	CH <sub>3</sub>	CF <sub>3</sub>	H	F
40	A-2020	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	CF <sub>3</sub>	H	F
	A-2021	H	CH <sub>3</sub>	SCHF <sub>2</sub>	H	F
	A-2022	F	CH <sub>3</sub>	SCHF <sub>2</sub>	H	F
	A-2023	Cl	CH <sub>3</sub>	SCHF <sub>2</sub>	H	F
45	A-2024	CH <sub>3</sub>	CH <sub>3</sub>	SCHF <sub>2</sub>	H	F
4:	A-2025	CH <sub>2</sub> CH <sub>3</sub>	CH3	SCHF <sub>2</sub>	H	F
	A-2026	H	CH3	SCF <sub>3</sub>	H	F

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Γ	No.	$\mathbb{R}^1$	R <sup>2</sup>	R <sup>11</sup>	R <sup>12</sup>	R <sup>13</sup>
ı	A-2027	F	CH <sub>3</sub>	SCF <sub>3</sub>	H	F
Ţ	A-2028	Cl	CH <sub>3</sub>	SCF <sub>3</sub>	H	F
5	A-2029	CH <sub>3</sub>	CH <sub>3</sub>	SCF <sub>3</sub>	H	F
- 1	A-2030	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	SCF <sub>3</sub>	R	F
	A-2031	н	CH <sub>3</sub>	OCHF <sub>2</sub>	H	F
	A-2032	F	CH <sub>3</sub>	OCHF <sub>2</sub>	н	F
	A-2033	Cl	CH <sub>3</sub>	OCHF <sub>2</sub>	H	F
10	A-2034	CH <sub>3</sub>	CH <sub>3</sub>	OCHF <sub>2</sub>	H	F
	A-2035	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	OCHFZ	H	F
	A-2036	H	СН <sub>3</sub>	OCF <sub>3</sub>	H	F
	A-2037	F	CH <sub>3</sub>	OCF <sub>3</sub>	H	F
15	A-2038	Cl	CH <sub>3</sub>	OCF <sub>3</sub>	H	F
	A-2039	CH <sub>3</sub>	CH₃	OCF <sub>3</sub>	H	F
	A-2040	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	OCF <sub>3</sub>	Ħ	F
	A-2041	ਸ਼	CH <sub>3</sub>	F	F	F
20	A-2042	F	CH <sub>3</sub>	F	F	F
	A-2043	Cl	CH <sub>3</sub>	F	F	F
	A-2044	CH <sub>3</sub>	CH <sub>3</sub>	F	F	F
	A-2045	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	F	F	F
25	A-2046	H	CH <sub>3</sub>	Cl	F	F
	A-2047	F	CH <sub>3</sub>	Cl	F	F
	A-2048	Cl	CH <sub>3</sub>	Cl	F	F
	A-2049	CH <sub>3</sub>	CH <sub>3</sub>	Cl	F	F
	A-2050	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	Cl	F	F
30	A-2051	R	CH <sub>3</sub>	CHF <sub>2</sub>	F	F
	A-2052	F	CH <sub>3</sub>	CHF <sub>2</sub>	F	F
	A-2053	Cl	CH <sub>3</sub>	CHF <sub>2</sub>	F	F
	A-2054	CH <sub>3</sub>	CH <sub>3</sub>	CHF <sub>2</sub>	F	F
35	A-2055	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	CHF <sub>2</sub>	F	F
	A-2056	H	CH <sub>3</sub>	CF <sub>3</sub>	F	F
	A-2057	F	CH <sub>3</sub>	CF <sub>3</sub>	F	F
	A-2058	Cl	CH <sub>3</sub>	CF <sub>3</sub>	F	F
40	A-2059	CH <sub>3</sub>	CH <sub>3</sub>	CF <sub>3</sub>	F	F
	A-2060	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	CF <sub>3</sub>	F	P
	A-2061	H	CH <sub>3</sub>	SCHF <sub>2</sub>	F	F
	A-2062	F	CH <sub>3</sub>	SCHF <sub>2</sub>	F	F
45	A-2063	Cl	CH <sub>3</sub>	SCHF <sub>2</sub>	F	F
43	A-2064	CH <sub>3</sub>	CH <sub>3</sub>	SCHF <sub>2</sub>	F	F
	A-2065	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	SCHF <sub>2</sub>	F	F

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ſ	No.	$\mathbb{R}^1$	R <sup>2</sup>	R <sup>11</sup>	R12	R <sup>13</sup>		
Ī	A-2066	H	CH <sub>3</sub>	SCF <sub>3</sub>	F	F		
1	A-2067	F	CH3	SCF <sub>3</sub>	F	F		
5	A-2068	Cl	CH <sub>3</sub>	SCF <sub>3</sub>	F	F		
_	A-2069	CH <sub>3</sub>	CH3	SCF <sub>3</sub>	F	F		
J	A-2070	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	SCF <sub>3</sub>	F	F		
	A-2071	H	CH <sub>3</sub>	OCHF <sub>2</sub>	F	F		
	A-2072	F	CH <sub>3</sub>	OCHF <sub>2</sub>	F	F		
10	A-2073	Cl	СH <sub>3</sub>	OCHF <sub>2</sub>	F	F		
	A-2074	CH <sub>3</sub>	CH <sub>3</sub>	OCHF <sub>2</sub>	F	F		
	A-2075	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	OCHF <sub>2</sub>	F	F		
	A-2076	н	CH <sub>3</sub>	OCF <sub>3</sub>	F	F		
15	A-2077	F	CH <sub>3</sub>	OCF <sub>3</sub>	F	F		
	A-2078	Cl	СH <sub>3</sub>	OCF <sub>3</sub>	F	F		
	A-2079	CH <sub>3</sub>	CH <sub>3</sub>	OCF <sub>3</sub>	F	F		
	A-2080	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	OCF <sub>3</sub>	F	F		
20	A-2081	H	CH <sub>3</sub>	F	Cl	F		
	A-2082	F	CH <sub>3</sub>	P	Cl	F		
	A-2083	Cl	CH <sub>3</sub>	F	C1	F		
	A-2084	CH <sub>3</sub>	CH <sub>3</sub>	F	C1	F		
25	A-2085	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	F	Cl	F		
	A-2086	H	CH <sub>3</sub>	Cl	Cl	F		
	A-2087	F	CH3	Cl	Cl	F		
	A-2088	Cl	CH3	Cl	Cl	F		
	A-2089	CH <sub>3</sub>	CH <sub>3</sub>	Cl	C1	F		
30	A-2090	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	Cl	C1	F		
	A-2091	Ħ	CH <sub>3</sub>	CHF <sub>2</sub>	Cl	F		
	A-2092	F	CH <sub>3</sub>	CHF <sub>2</sub>	Cl	F		
	A-2093	Cl	CH <sub>3</sub>	CHF <sub>2</sub>	Cl	F		
35	A-2094	CH <sub>3</sub>	CH <sub>3</sub>	CHF <sub>2</sub>	Cl	F		
	A-2095	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	CHF <sub>2</sub>	Cl	F		
	A-2096	H	CH3	CF <sub>3</sub>	Cl	F		
	A-2097	F	. CH <sub>3</sub>	CF <sub>3</sub>	C1	F		
40	A-2098	Cl	CH <sub>3</sub>	CF <sub>3</sub>	CI	F		
	A-2099	CH <sub>3</sub>	CH <sub>3</sub>	CF <sub>3</sub>	Cl	F		
	A-2100	CH <sub>2</sub> CH <sub>3</sub>	CH3	CF <sub>3</sub>	Cl	F		
	A-2101	H	CH3	SCHF <sub>2</sub>	Cl	F		
4 ==	A-2102	F	ĊH <sub>3</sub>	SCHF <sub>2</sub>	Cl	F		
45	A-2103	Cl	CH <sub>3</sub>	SCHF <sub>2</sub>	Cl	F		
	A-2104	CH <sub>3</sub>	CH <sub>3</sub>	SCHF <sub>2</sub>	Cl	F		
					ě.			

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ſ	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R <sup>12</sup>	R <sup>13</sup>
ſ	A-2105	CH <sub>2</sub> CH <sub>3</sub>	CH3	SCHF <sub>2</sub>	Cl	F
	A-2106	H	CH³	SCF <sub>3</sub>	Cl	F
5	A-2107	F	C∄3	SCF <sub>3</sub>	Cl	F
[	A-2108	Cl	CH3	SCF <sub>3</sub>	Cl	F
	A-2109	CH <sub>3</sub>	CH₃	SCF <sub>3</sub>	Cl	F
	A-2110	CH <sub>2</sub> CH <sub>3</sub>	CH3C	SCF <sub>3</sub>	Cl	F
	A-2111	H	CH <sub>3</sub> C	OCHF <sub>2</sub>	Cl	F
10	A-2112	F	CH <sub>3</sub>	OCHF <sub>2</sub>	Cl	F
	A-2113	Cl	CH <sub>3</sub>	OCHF <sub>2</sub>	Cl	F
	A-2114	CH <sub>3</sub>	CH <sub>3</sub> C	OCHF <sub>2</sub>	Cl	F
	A-2115	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub> C	OCHF <sub>2</sub>	C1	F
15	A-2116	н	CH₃	OCF <sub>3</sub>	Cl	F
	A-2117	F	CH <sub>3</sub>	OCF <sub>3</sub>	Cl	F
	A-2118 .	Cl	CH <sub>3</sub>	OCF <sub>3</sub>	Cl	F
	A-2119	CH <sub>3</sub>	CH3	OCF <sub>3</sub>	Cl	F
20	A-2120	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	OCF <sub>3</sub>	Cl	F
	A-2121	H	CH₃	F	CHF <sub>2</sub>	F
	A-2122	F	CH <sub>3</sub>	F	CHF <sub>2</sub>	F
25	A-2123	Cl	CH <sub>3</sub>	F	CHF <sub>2</sub>	F
	A-2124	CH <sub>3</sub>	CH <sub>3</sub>	F	CHF <sub>2</sub>	F
	A-2125	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	F	CHF <sub>2</sub>	F
	A-2126	H	CH <sub>3</sub>	Cl	CHF <sub>2</sub>	F
	A-2127	F	CH <sub>3</sub>	Cl	CHF <sub>2</sub>	F
	A-2128	Cl	CH <sub>3</sub>	Cl	CHF <sub>2</sub>	F
30	A-2129	CH <sub>3</sub>	CH <sub>3</sub>	Cl	CHF <sub>2</sub>	F
	A-2130	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	Cl	CHF <sub>2</sub>	F
	A-2131	H	CH <sub>3</sub>	CHF <sub>2</sub>	CHF <sub>2</sub>	F
	A-2132	F	CH <sub>3</sub>	CHF <sub>2</sub>	CHF <sub>2</sub>	F
35	A-2133	Cl	CH <sub>3</sub>	CHF <sub>2</sub>	CHF <sub>2</sub>	F
	A-2134	CH <sub>3</sub>	CH <sub>3</sub>	CHF <sub>2</sub>	CHF <sub>2</sub>	F
	A-2135	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	CHF <sub>2</sub>	CHF <sub>2</sub>	F
40	A-2136	H	CH <sub>3</sub>	CF <sub>3</sub>	CHF <sub>2</sub>	F
	A-2137	F	CH <sub>3</sub>	CF <sub>3</sub>	CHF <sub>2</sub>	F
	A-2138	Cl	CH <sub>3</sub>	CF <sub>3</sub>	CHF <sub>2</sub>	F
	A-2139	CH <sub>3</sub>	CH <sub>3</sub>	CF <sub>3</sub>	CHF <sub>2</sub>	F
	A-2140	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	CF <sub>3</sub>	CHF <sub>2</sub>	P
45	A-2141	H	CH <sub>3</sub>	SCHF <sub>2</sub>	CHF <sub>2</sub>	F
40	A-2142	P	CH3	SCHF <sub>2</sub>	CHF <sub>2</sub>	F
	A-2143	C1	CH <sub>3</sub>	SCHF <sub>2</sub>	CHF <sub>2</sub>	F





	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R <sup>12</sup>	R <sup>13</sup>
	A-2144	CH <sub>3</sub>	CH <sub>3</sub>	SCHF <sub>2</sub>	CHF <sub>2</sub>	F
	A-2145	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	SCHF <sub>2</sub>	CHF <sub>2</sub>	F
5	A-2146	H	CH <sub>3</sub>	SCF <sub>3</sub>	CHF <sub>2</sub>	F
	A-2147	F	CH3	SCF <sub>3</sub>	CHF <sub>2</sub>	F
i	A-2148	Cl	CH <sub>3</sub>	SCF <sub>3</sub>	CHF <sub>2</sub>	F
	A-2149	CH <sub>3</sub>	CH <sub>3</sub>	SCF <sub>3</sub>	CHF <sub>2</sub>	F
10	A-2150	CH <sub>2</sub> CH <sub>3</sub>	CH₃	SCF <sub>3</sub>	CHF <sub>2</sub>	F
10	A-2151	H	CH <sub>3</sub>	OCHF <sub>2</sub>	CHF <sub>2</sub>	F
	A-2152	F	CH3	OCHF <sub>2</sub>	CHF <sub>2</sub>	F
	A-2153	Cl	CH <sub>3</sub>	OCHF <sub>2</sub>	CHF <sub>2</sub>	F
•	A-2154	CH <sub>3</sub>	CH <sub>3</sub>	OCHF <sub>2</sub>	CHF <sub>2</sub>	F
15	A-2155	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	OCHF <sub>2</sub>	CHF <sub>2</sub>	F
	A-2156	H	CH <sub>3</sub>	OCF <sub>3</sub>	CHF <sub>2</sub>	F
	A-2157	F	CH <sub>3</sub>	OCF <sub>3</sub>	CHF <sub>2</sub>	F
	A-2158	C1	CH3	OCF <sub>3</sub>	CHF <sub>2</sub>	F
20	A-2159	CH <sub>3</sub>	CH <sub>3</sub>	OCF <sub>3</sub>	CHF <sub>2</sub>	F
	A-2160	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	OCF <sub>3</sub>	CHF <sub>2</sub>	F
25	A-2161	H	CH <sub>3</sub>	F	CF <sub>3</sub>	F
	A-2162	F	CH3	F	CF <sub>3</sub>	F ·
	A-2163	Cl	CH <sub>3</sub>	F	CF <sub>3</sub>	F
	A-2164	CH3	CH <sub>3</sub>	F	CF <sub>3</sub>	F
	A-2165	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	F	CF <sub>3</sub>	F
	A-2166	H	CH <sub>3</sub>	Cl	CF <sub>3</sub>	F
	A-2167	F	CH3	Cl	CF <sub>3</sub>	F
30	A-2168	CI	CH3	Cl	CF <sub>3</sub>	F
	A-2169	CH <sub>3</sub>	CH <sub>3</sub>	Cl	CF <sub>3</sub>	F
	A-2170	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	Cl	CF <sub>3</sub>	F
	A-2171	H	CH <sub>3</sub>	CHF <sub>2</sub>	CF <sub>3</sub>	F
35	A-2172	F	CH3	CHF <sub>2</sub>	CF <sub>3</sub>	F
	A-2173	C1	CH <sub>3</sub>	CHF <sub>2</sub>	CF <sub>3</sub>	F
	A-2174	СН3	CH <sub>3</sub>	CHF <sub>2</sub>	CF <sub>3</sub>	F
40	A-2175	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	CHF <sub>2</sub>	CF <sub>3</sub>	F
	A-2176	H	CH3	CF <sub>3</sub>	CF <sub>3</sub>	F
	A-2177	F	CH3	CF <sub>3</sub>	CF <sub>3</sub>	F
	A-2178	C1	CH <sub>3</sub>	CF <sub>3</sub>	CF <sub>3</sub>	F
	A-2179	CH3	CH <sub>3</sub>	CF <sub>3</sub>	CF <sub>3</sub>	F
AE	A-2180	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	CF <sub>3</sub>	CF <sub>3</sub>	F
45	A-2181	H	CH3	SCHF <sub>2</sub>	CF <sub>3</sub>	F
	A-2182	F	CH <sub>3</sub>	SCHF <sub>2</sub>	CF <sub>3</sub>	F

No. R <sup>1</sup> R <sup>2</sup> R <sup>11</sup> R <sup>12</sup> R <sup>13</sup> R <sup>13</sup> A-2183 C1 CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> F A-2184 CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> F A-2185 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCHF <sub>2</sub> CF <sub>3</sub> F A-2186 H CH <sub>3</sub> SCF <sub>3</sub> CF <sub>3</sub> F A-2187 F CH <sub>3</sub> SCF <sub>3</sub> CF <sub>3</sub> F A-2188 C1 CH <sub>3</sub> SCF <sub>3</sub> CF <sub>3</sub> F A-2189 CH <sub>3</sub> CH <sub>3</sub> SCF <sub>3</sub> CF <sub>3</sub> F A-2190 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCF <sub>3</sub> CF <sub>3</sub> F A-2191 H CH <sub>3</sub> SCF <sub>3</sub> CF <sub>3</sub> F A-2192 F CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2193 C1 CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2195 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2196 H CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2197 F CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2198 C1 CH <sub>3</sub> CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2199 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2196 H CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2197 F CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2199 CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2199 CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2199 CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2200 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2201 H CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2201 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2202 F CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2204 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2205 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2206 H CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2207 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> C1 H C1 A-2208 C1 CH <sub>3</sub> CH <sub>3</sub> C1 H C1 A-2208 C1 CH <sub>3</sub> CH <sub>3</sub> C1 H C1 A-2208 C1 CH <sub>3</sub> CH <sub>3</sub> C1 H C1 A-2208 C1 CH <sub>3</sub> CH <sub>3</sub> C1 H C1 A-2209 CH <sub>4</sub> CH <sub>3</sub> C1 H C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C	
A-2184       CH3       CH3       SCHF2       CF3       F         A-2185       CH2CH3       CH3       SCHF2       CF3       F         A-2186       H       CH3       SCF3       CF3       F         A-2187       F       CH3       SCF3       CF3       F         A-2188       C1       CH3       SCF3       CF3       F         A-2189       CH3       CH3       SCF3       CF3       F         A-2189       CH3       CH3       SCF3       CF3       F         A-2190       CH2CH3       CH3       SCF3       CF3       F         A-2191       H       CH3       OCH72       CF3       F         A-2191       H       CH3       OCH72       CF3       F         A-2192       F       CH3       OCH72       CF3       F         A-2193       C1       CH3       OCH72       CF3       F         A-2194       CH3       CH3       OCH72       CF3       F         A-2195       CH2CH3       CH3       OCF3       CF3       F         A-2197       F       CH3       OCF3       CF3       F <tr< th=""><td></td></tr<>	
A-2185         CH2CH3         CH3         SCHF2         CF3         F           A-2186         H         CH3         SCF3         CF3         F           A-2187         F         CH3         SCF3         CF3         F           A-2188         C1         CH3         SCF3         CF3         F           A-2189         CH3         CH3         SCF3         CF3         F           A-2190         CH2CH3         CH3         SCF3         CF3         F           A-2191         H         CH3         OCHF2         CF3         F           A-2191         H         CH3         OCHF2         CF3         F           A-2192         F         CH3         OCHF2         CF3         F           A-2193         C1         CH3         OCHF2         CF3         F           A-2194         CH3         CH3         OCHF2         CF3         F           A-2195         CH2CH3         CH3         OCHF2         CF3         F           A-2196         H         CH3         OCF3         CF3         F           A-2197         F         CH3         OCF3         CF3         F </th <td></td>	
A-2186	
A-2187 F CH <sub>3</sub> SCF <sub>3</sub> CF <sub>3</sub> F A-2188 C1 CH <sub>3</sub> SCF <sub>3</sub> CF <sub>3</sub> F A-2189 CH <sub>3</sub> CH <sub>3</sub> SCF <sub>3</sub> CF <sub>3</sub> F A-2190 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCF <sub>3</sub> CF <sub>3</sub> F A-2191 H CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2192 F CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2193 C1 CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2194 CH <sub>3</sub> CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2195 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2196 H CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2197 F CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2198 C1 CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2199 CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2199 CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2200 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2201 H CH <sub>3</sub> CH <sub>3</sub> F CH <sub>3</sub> CCF <sub>3</sub> F A-2201 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F CH <sub>3</sub> CCF <sub>3</sub> F A-2201 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F CH <sub>3</sub> CCF <sub>3</sub> F A-2201 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F CH <sub>3</sub> CCF <sub>3</sub> F A-2201 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F CH <sub>3</sub> CCF <sub>3</sub> F CC1 A-2204 CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2205 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2206 H CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2207 F CH <sub>3</sub> CH <sub>3</sub> C1 H C1 A-2208 C1 CH <sub>3</sub> C1 H C1 A-2208 C1 CH <sub>3</sub> C1 H C1	
A-2188 C1 CH <sub>3</sub> SCF <sub>3</sub> CF <sub>3</sub> F A-2189 CH <sub>3</sub> CH <sub>3</sub> SCF <sub>3</sub> SCF <sub>3</sub> F A-2190 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCF <sub>3</sub> CF <sub>3</sub> F A-2191 H CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2192 F CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2193 C1 CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2194 CH <sub>3</sub> CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2195 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2196 H CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2197 F CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2198 C1 CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2199 CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2199 CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2200 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2201 H CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2201 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2202 F CH <sub>3</sub> F H C1 A-2204 CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2205 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2206 H CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2207 F CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2207 F CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2207 F CH <sub>3</sub> CH <sub>3</sub> C1 H C1 A-2208 C1 CH <sub>3</sub> CH <sub>3</sub> C1 H C1	
10 A-2189 CH <sub>3</sub> CH <sub>3</sub> SCF <sub>3</sub> CF <sub>3</sub> F A-2190 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> SCF <sub>3</sub> CF <sub>3</sub> F A-2191 H CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2192 F CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2193 C1 CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2194 CH <sub>3</sub> CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2195 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2196 H CH <sub>3</sub> OCH <sub>2</sub> CF <sub>3</sub> F A-2197 F CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2198 C1 CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2199 CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2199 CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2200 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2201 H CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2202 F CH <sub>3</sub> F H C1 A-2204 CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2206 H CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2206 H CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2207 F CH <sub>3</sub> CH <sub>3</sub> C1 H C1 A-2208 C1 CH <sub>3</sub> C1 H C1 A-2208 C1 CH <sub>3</sub> C1 H C1 A-2208 C1 CH <sub>3</sub> C1 H C1 A-2208 C1 CH <sub>3</sub> C1 H C1 C1 A-2208 C1 CH <sub>3</sub> C1 H C1	
A-2190	]
A-2190	
A-2192 F CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2193 C1 CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2194 CH <sub>3</sub> CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2195 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2196 H CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2197 F CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2198 C1 CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2199 CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2200 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2201 H CH <sub>3</sub> CF <sub>3</sub> F H C1 A-2202 F CH <sub>3</sub> F H C1 A-2203 C1 CH <sub>3</sub> F H C1 A-2204 CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2205 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2206 H CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2206 H CH <sub>3</sub> CH <sub>3</sub> F C1 A-2207 F CH <sub>3</sub> C1 H C1 A-2208 C1 CH <sub>3</sub> C1 H C1 A-2208 C1 CH <sub>3</sub> C1 H C1	
A-2193 C1 CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2194 CH <sub>3</sub> CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2195 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2196 H CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2197 F CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2198 C1 CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2199 CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2200 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2201 H CH <sub>3</sub> F H C1 A-2202 F CH <sub>3</sub> F H C1 A-2203 C1 CH <sub>3</sub> F H C1 A-2204 CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2205 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2206 H CH <sub>3</sub> CH <sub>3</sub> C1 H C1 A-2206 H CH <sub>3</sub> CH <sub>3</sub> C1 H C1 A-2207 F CH <sub>3</sub> C1 H C1 A-2208 C1 CH <sub>3</sub> C1 H C1	
15 A-2194 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2195 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2196 H CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2197 F CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2198 Cl CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2199 CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2200 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2201 H CH <sub>3</sub> F H Cl A-2202 F CH <sub>3</sub> F H Cl A-2203 Cl CH <sub>3</sub> F H Cl A-2204 CH <sub>3</sub> CH <sub>3</sub> F H Cl A-2205 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F H Cl A-2206 H CH <sub>3</sub> F H Cl A-2206 H CH <sub>3</sub> CH <sub>3</sub> Cl H Cl A-2207 F CH <sub>3</sub> CH <sub>3</sub> Cl H Cl A-2207 F CH <sub>3</sub> Cl H Cl A-2208 Cl CH <sub>3</sub> Cl H Cl	
A-2195 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCHF <sub>2</sub> CF <sub>3</sub> F A-2196 H CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2197 F CB <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2198 C1 CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2199 CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2200 CH <sub>2</sub> CH <sub>3</sub> CB <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2201 H CH <sub>3</sub> F H C1 A-2202 F CH <sub>3</sub> F H C1 A-2203 C1 CH <sub>3</sub> F H C1 A-2204 CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2205 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2206 H CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2206 H CH <sub>3</sub> CH <sub>3</sub> F C H C1 A-2207 F CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2208 C1 CH <sub>3</sub> C1 H C1 A-2208 C1 CH <sub>3</sub> C1 H C1	
A-2196 H CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2197 F CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2198 Cl CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2199 CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2200 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2201 H CH <sub>3</sub> F H Cl A-2202 F CH <sub>3</sub> F H Cl A-2203 Cl CH <sub>3</sub> F H Cl A-2204 CH <sub>3</sub> CH <sub>3</sub> F H Cl A-2205 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F H Cl A-2206 H CH <sub>3</sub> CH <sub>3</sub> F H Cl A-2207 F CH <sub>3</sub> CH <sub>3</sub> Cl H Cl A-2207 F CH <sub>3</sub> Cl H Cl	
A-2197 F CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2198 C1 CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2199 CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2200 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2201 H CH <sub>3</sub> F H C1 A-2202 F CH <sub>3</sub> F H C1 A-2203 C1 CH <sub>3</sub> F H C1 A-2204 CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2205 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2206 H CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2207 F CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2208 C1 CH <sub>3</sub> C1 H C1 A-2208 C1 CH <sub>3</sub> C1 H C1	
20 A-2198 C1 CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2199 CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> OCF <sub>3</sub> F A-2200 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F A-2201 H CH <sub>3</sub> F H C1 A-2202 F CH <sub>3</sub> F H C1 A-2203 C1 CH <sub>3</sub> F H C1 A-2204 CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2205 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2206 H CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2207 F CH <sub>3</sub> C1 H C1 A-2208 C1 CH <sub>3</sub> C1 H C1 A-2208 C1 CH <sub>3</sub> C1 H C1	
A-2199 CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F  A-2200 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F  A-2201 H CH <sub>3</sub> F H Cl  A-2202 F CH <sub>3</sub> F H Cl  A-2203 Cl CH <sub>3</sub> F H Cl  A-2204 CH <sub>3</sub> CH <sub>3</sub> F H Cl  A-2205 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F H Cl  A-2206 H CH <sub>3</sub> CH <sub>3</sub> Cl H Cl  A-2207 F CH <sub>3</sub> Cl H Cl  A-2208 Cl CH <sub>3</sub> Cl H Cl	
A-2200 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> CF <sub>3</sub> F  A-2201 H CH <sub>3</sub> F H Cl  A-2202 F CH <sub>3</sub> F H Cl  A-2203 Cl CH <sub>3</sub> F H Cl  A-2204 CH <sub>3</sub> CH <sub>3</sub> F H Cl  A-2205 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F H Cl  A-2206 H CH <sub>3</sub> CH <sub>3</sub> Cl H Cl  A-2207 F CH <sub>3</sub> Cl H Cl  A-2208 Cl CH <sub>3</sub> Cl H Cl	
A-2201 H CH <sub>3</sub> F H C1 A-2202 F CH <sub>3</sub> F H C1 A-2203 C1 CH <sub>3</sub> F H C1 A-2204 CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2205 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2206 H CH <sub>3</sub> CH <sub>3</sub> C1 H C1 A-2207 F CH <sub>3</sub> C1 H C1 A-2208 C1 CH <sub>3</sub> C1 H C1	
25 A-2202 F CH <sub>3</sub> F H C1 A-2203 C1 CH <sub>3</sub> F H C1 A-2204 CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2205 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2206 H CH <sub>3</sub> C1 H C1 A-2207 F CH <sub>3</sub> C1 H C1 A-2208 C1 CH <sub>3</sub> C1 H C1	
25 A-2203 C1 CH <sub>3</sub> F H C1 A-2204 CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2205 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2206 H CH <sub>3</sub> CH <sub>3</sub> C1 H C1 A-2207 F CH <sub>3</sub> C1 H C1 A-2208 C1 CH <sub>3</sub> C1 H C1	
A-2203 C1 CH <sub>3</sub> F H C1 A-2204 CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2205 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F H C1 A-2206 H CH <sub>3</sub> C1 H C1 A-2207 F CH <sub>3</sub> C1 H C1 A-2208 C1 CH <sub>3</sub> C1 H C1	
A-2205 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F H Cl A-2206 H CH <sub>3</sub> Cl H Cl A-2207 F CH <sub>3</sub> Cl H Cl A-2208 Cl CH <sub>3</sub> Cl H Cl	
A-2206 H CH <sub>3</sub> Cl H Cl A-2207 F CH <sub>3</sub> Cl H Cl A-2208 Cl CH <sub>3</sub> Cl H Cl	
30 A-2207 F CH <sub>3</sub> Cl H Cl A-2208 Cl CH <sub>3</sub> Cl H Cl	
A-2207 F CH <sub>3</sub> CI H CI A-2208 Cl CH <sub>3</sub> Cl H Cl	
- 0000 lon lon lon lon	
A-2209 CH <sub>3</sub> CH <sub>3</sub> Cl H Cl	
A-2210 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> Cl H Cl	
35 A-2211 H CH <sub>3</sub> CHF <sub>2</sub> H C1	
A-2212 F CH <sub>3</sub> CHF <sub>2</sub> H C1	
A-2213 C1 CH <sub>3</sub> CHF <sub>2</sub> H C1	
A-2214 CH <sub>3</sub> CH <sub>3</sub> CHP <sub>2</sub> H C1	
40 A-2215 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> H C1	
A-2216 H CH <sub>3</sub> CF <sub>3</sub> H C1	
A-2217 F CH <sub>3</sub> CF <sub>3</sub> H C1	
A-2218 C1 CH <sub>3</sub> CF <sub>3</sub> H C1	
A-2219 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> H C1	
$A-2220$ $CH_2CH_3$ $CH_3$ $CF_3$ $H$ $C1$	
A-2221 H CH <sub>3</sub> SCHF <sub>2</sub> H C1	

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No.   R1   R2   R11   R12   R13	_						
A-2223         C1         CH3         SCHF2         H         C1           A-2224         CH3         CCH3         SCHF2         H         C1           A-2225         CH2CE3         CH3         SCHF2         H         C1           A-2226         H         C1         C1         C1           A-2227         F         CH3         SCF3         H         C1           A-2228         C1         CH3         SCF3         H         C1           A-2229         CH3         CB3         SCF3         H         C1           A-2230         CH2CH3         CH3         SCF3         H         C1           A-2231         H         CB3         OCHF2         H         C1           A-2231         H         CB3         OCHF2         H         C1           A-2233         C1         CB3         OCHF2         H         C1           A-2233         C1         CB3         OCHF2         H         C1           A-2234         CH3         CB3         OCHF2         H         C1           A-2237         F         CH3         OCF3         H         C1	ſ	No.	RI	R <sup>2</sup>	R <sup>11</sup>	R <sup>12</sup>	R <sup>13</sup>
5         A-2224         CH3         CH3         SCHF2         H         C1           A-2225         CH2CB3         CH3         SCHF2         H         C1           A-2226         H         CH3         SCF3         H         C1           A-2227         F         CH3         SCF3         H         C1           A-2228         C1         CH3         SCF3         H         C1           A-2229         CH3         CH3         SCF3         H         C1           A-2230         CH2CB3         CH3         SCF3         H         C1           A-2231         H         CH3         OCHF2         H         C1           A-2233         C1         CH3         OCHF2         H         C1           A-2234         CH3         CH3         OCHF2         H         C1           A-2235         CH2CH3         CH3         OCHF2         H         C1           A-2236         CH2CH3         CH3         OCHF2         H         C1           A-2237         F         CH3         OCF3         H         C1           A-2238         C1         CH3         OCF3         H	ſ	A-2222	F	CH3	SCHF <sub>2</sub>	H	Cl
A-2225   CH <sub>2</sub> CE <sub>3</sub>   CH <sub>3</sub>   SCHF <sub>2</sub>   H   C1     A-2226   B   CH <sub>3</sub>   SCF <sub>3</sub>   H   C1     A-2227   F   CH <sub>3</sub>   SCF <sub>3</sub>   H   C1     A-2228   C1   CH <sub>3</sub>   SCF <sub>3</sub>   H   C1     A-2229   CH <sub>3</sub>   CH <sub>3</sub>   SCF <sub>3</sub>   H   C1     A-2230   CH <sub>2</sub> CH <sub>3</sub>   CH <sub>3</sub>   SCF <sub>3</sub>   H   C1     A-2231   H   CH <sub>3</sub>   OCHF <sub>2</sub>   H   C1     A-2232   F   CH <sub>3</sub>   OCHF <sub>2</sub>   H   C1     A-2233   C1   CH <sub>3</sub>   OCHF <sub>2</sub>   H   C1     A-2234   CH <sub>3</sub>   CH <sub>3</sub>   OCHF <sub>2</sub>   H   C1     A-2235   CH <sub>2</sub> CH <sub>3</sub>   CH <sub>3</sub>   OCHF <sub>2</sub>   H   C1     A-2236   H   CH <sub>3</sub>   OCHF <sub>2</sub>   H   C1     A-2237   F   CH <sub>3</sub>   OCF <sub>3</sub>   H   C1     A-2238   C1   CH <sub>3</sub>   OCF <sub>3</sub>   H   C1     A-2239   CH <sub>3</sub>   CH <sub>3</sub>   OCF <sub>3</sub>   H   C1     A-2239   CH <sub>3</sub>   CH <sub>3</sub>   OCF <sub>3</sub>   H   C1     A-2240   CH <sub>2</sub> CH <sub>3</sub>   CH <sub>3</sub>   OCF <sub>3</sub>   H   C1     A-2241   H   CH <sub>3</sub>   F   F   C1     A-2242   F   CH <sub>3</sub>   F   F   C1     A-2243   C1   CH <sub>3</sub>   F   F   C1     A-2244   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   F   F   C1     A-2245   CH <sub>2</sub> CH <sub>3</sub>   CH <sub>3</sub>   F   F   C1     A-2246   H   CH <sub>3</sub>   CH <sub>3</sub>   F   F   C1     A-2247   F   CH <sub>3</sub>   CH <sub>3</sub>   C1   F   C1     A-2248   C1   CH <sub>3</sub>   CH <sub>3</sub>   C1   F   C1     A-2249   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   C1   F   C1     A-2249   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   C1   F   C1     A-2240   CH <sub>2</sub> CH <sub>3</sub>   CH <sub>3</sub>   C1   F   C1     A-2247   F   CH <sub>3</sub>   CH <sub>3</sub>   C1   F   C1     A-2248   C1   CH <sub>3</sub>   CH <sub>3</sub>   C1   F   C1     A-2249   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   C1   F   C1     A-2250   CH <sub>2</sub> CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>2</sub>   F   C1     A-2251   H   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>2</sub>   F   C1     A-2252   F   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>2</sub>   F   C1     A-2255   CH <sub>2</sub> CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>2</sub>   F   C1     A-2256   H   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>2</sub>   F   C1     A-2257   F   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   F   F   C1     A-2256   H   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   F   C1     A-2257   F   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   F   C1     A-2258   C1   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>   CH <sub>3</sub>	Ī	A-2223	Cl	CH <sub>3</sub>	SCHF <sub>2</sub>	Н	Cl
A-2226   B	5	A-2224	СН3	CH <sub>3</sub>	SCHF <sub>2</sub>	н	Cl
A-2227   F   CH3   SCF3   H   C1	Γ	A-2225	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	SCHF <sub>2</sub>	н	Cl
A-2228	ſ	A-2226	H	CH <sub>3</sub>	SCF <sub>3</sub>	н	Cl
A-2229	Ī	A-2227	F	CH <sub>3</sub>	SCF <sub>3</sub>	Н	Cl
A-2229 CH3 CH3 SCF3 H C1 A-2231 H CH3 SCF3 H C1 A-2232 F CH3 OCHF2 H C1 A-2232 F CH3 OCHF2 H C1 A-2233 C1 CH3 OCHF2 H C1 A-2234 CB3 CH3 OCHF2 H C1 A-2235 CH2CH3 CB3 OCHF2 H C1 A-2236 H CH3 OCHF2 H C1 A-2237 F CH3 OCHF2 H C1 A-2236 H CH3 OCHF3 H C1 A-2237 F CH3 OCF3 H C1 A-2238 C1 CH3 OCF3 H C1 A-2238 C1 CH3 OCF3 H C1 A-2239 CH3 CB3 OCF3 H C1 A-2239 CH3 CB3 OCF3 H C1 A-2240 CH2CH3 CH3 OCF3 H C1 A-2240 CH2CH3 CH3 OCF3 H C1 A-2241 H CH3 F F C1 A-2242 F CH3 F F C1 A-2244 CH3 CH3 F F C1 A-2244 CH3 CH3 F F C1 A-2244 CH3 CH3 F F C1 A-2244 CH3 CH3 F F C1 A-2245 CH2CH3 CH3 F F C1 A-2246 H CH3 CH3 F F C1 A-2247 F CH3 CH3 F F C1 A-2248 C1 CH3 CH3 F F C1 A-2248 C1 CH3 CH3 F F C1 A-2249 CH3 CH3 CH3 F F C1 A-2249 CH3 CH3 CH3 F F C1 A-2250 CH2CH3 CH3 CH3 F C1 A-2250 CH2CH3 CH3 CH3 F C1 A-2250 CH2CH3 CH3 CH3 F C1 A-2250 CH2CH3 CH3 CH3 F C1 A-2250 CH2CH3 CH3 CH3 F C1 A-2250 CH2CH3 CH3 CH3 F C1 A-2250 CH2CH3 CH3 CH3 F C1 A-2250 CH2CH3 CH3 CH3 CH5 F C1 A-2250 CH2CH3 CH3 CH3 CH5 F C1 A-2250 CH2CH3 CH3 CH3 CH5 F C1 A-2250 CH2CH3 CH3 CH5 CH5 F C1 A-2250 CH2CH3 CH3 CH5 CH5 F C1 A-2250 CH2CH3 CH3 CH5 CH5 F C1 A-2250 CH2CH3 CH3 CH5 CH5 CH5 F C1 A-2250 CH2CH3 CH3 CH5 CH5 F C1 A-2250 CH2CH3 CH3 CH5 CH5 F C1 A-2250 CH2CH3 CH3 CH5 CH5 F C1 A-2250 CH2CH3 CH3 CH5 CH5 F C1 A-2250 CH2CH3 CH3 CH5 CH5 F C1 A-2250 CH2CH3 CH3 CH5 CH5 F C1 A-2250 CH2CH3 CH3 CH5 CH5 F C1 A-2250 CH2CH3 CH3 CH5 CH5 F C1 A-2250 CH2CH3 CH3 CH5 CH5 F C1 A-2250 CH2CH3 CH3 CH5 CH5 F C1 A-2250 CH2CH3 CH3 CH5 CH5 F C1 A-2250 CH2CH3 CH3 CH5 CH5 F C1 A-2250 CH2CH3 CH3 CH5 CH5 F C1 A-2250 CH2CH3 CH3 CH5 CH5 F C1 A-2250 CH2CH3 CH3 CH5 CH5 F C1 A-2250 CH2CH3 CH3 CH5 CH5 CH5 CH1 CH1 CH1 CH1 CH1 CH1 CH1 CH1 CH1 CH1		A-2228	Cl	CH <sub>3</sub>	SCF <sub>3</sub>	H	Cl
A-2231	10	A-2229	CH <sub>3</sub>	CH <sub>3</sub>	SCF <sub>3</sub>	H	Cl
A-2232   F   CH3   OCHF2   H   C1	1	A-2230	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	SCF <sub>3</sub>	H	Cl
15	ſ	A-2231	H	CH <sub>3</sub>	OCHF <sub>2</sub>	H	Cl
A-2234 CB <sub>3</sub> CB <sub>3</sub> OCHF <sub>2</sub> H C1 A-2235 CH <sub>2</sub> CH <sub>3</sub> CB <sub>3</sub> OCHF <sub>2</sub> H C1 A-2236 H CH <sub>3</sub> OCF <sub>3</sub> H C1 A-2237 F CH <sub>3</sub> OCF <sub>3</sub> H C1 A-2238 C1 CH <sub>3</sub> OCF <sub>3</sub> H C1 A-2239 CH <sub>3</sub> CB <sub>3</sub> OCF <sub>3</sub> H C1 A-2239 CH <sub>3</sub> CB <sub>3</sub> OCF <sub>3</sub> H C1 A-2240 CH <sub>2</sub> CH <sub>3</sub> CB <sub>3</sub> OCF <sub>3</sub> H C1 A-2241 H CB <sub>3</sub> F F C1 A-2242 F CH <sub>3</sub> F F C1 A-2244 CH <sub>3</sub> F F C1 A-2244 CH <sub>3</sub> CB <sub>3</sub> F F C1 A-2245 CH <sub>2</sub> CH <sub>3</sub> CB <sub>3</sub> F F C1 A-2246 H CH <sub>3</sub> CB <sub>3</sub> F F C1 A-2247 F CB <sub>3</sub> CB <sub>3</sub> C1 F C1 A-2248 C1 CB <sub>3</sub> CB <sub>3</sub> C1 F C1 A-2248 C1 CB <sub>3</sub> CB <sub>3</sub> C1 F C1 A-2249 CB <sub>3</sub> CB <sub>3</sub> CB <sub>3</sub> C1 F C1 A-2249 CB <sub>3</sub> CB <sub>3</sub> CB <sub>3</sub> C1 F C1 A-2250 CB <sub>2</sub> CB <sub>3</sub> CB <sub>3</sub> C1 F C1 A-2250 CB <sub>2</sub> CB <sub>3</sub> CB <sub>3</sub> C1 F C1 A-2250 CB <sub>2</sub> CB <sub>3</sub> CB <sub>3</sub> C1 F C1 A-2250 CB <sub>2</sub> CB <sub>3</sub> CB <sub>3</sub> C1 F C1 A-2250 CB <sub>2</sub> CB <sub>3</sub> CB <sub>3</sub> C1 F C1 A-2250 CB <sub>2</sub> CB <sub>3</sub> CB <sub>3</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> CB <sub>5</sub> C	Ī	A-2232	F	CH <sub>3</sub>	OCHF <sub>2</sub>	H	Cl
A-2235	15	A-2233	Cl	CH <sub>3</sub>	OCHF <sub>2</sub>	H	Cl
A-2236 H CH3 OCF3 H Cl A-2237 F CH3 OCF3 H Cl A-2238 C1 CH3 OCF3 H Cl A-2239 CH3 CH3 OCF3 H Cl A-2240 CH2CH3 CH3 OCF3 H Cl A-2241 H CH3 F F Cl A-2242 F CH3 F F Cl A-2243 C1 CH3 F F Cl A-2244 CH3 CH3 F F Cl A-2245 CH2CH3 CH3 F F Cl A-2245 CH2CH3 CH3 F F Cl A-2246 H CH3 CH3 F F Cl A-2247 F CH3 CH3 Cl F Cl A-2247 F CH3 Cl F Cl A-2248 C1 CH3 CH3 Cl F Cl A-2248 C1 CH3 CH3 Cl F Cl A-2250 CH2CH3 CH3 Cl F Cl A-2250 CH2CH3 CH3 Cl F Cl A-2250 CH2CH3 CH3 Cl F Cl A-2250 CH2CH3 CH3 Cl F Cl A-2250 CH2CH3 CH3 Cl F Cl A-2250 CH2CH3 CH3 Cl F Cl A-2250 CH2CH3 CH3 Cl F Cl A-2250 CH2CH3 CH3 Cl F Cl A-2250 CH2CH3 CH3 Cl F Cl A-2250 CH2CH3 CH3 CH52 F Cl A-2250 CH2CH3 CH3 CH52 F Cl A-2250 CH2CH3 CH3 CH52 F Cl A-2250 CH2CH3 CH3 CH52 F Cl A-2250 CH3 CH3 CH52 F Cl	1	A-2234	CH3	CH <sub>3</sub>	OCHF <sub>2</sub>	H	Cl
20		A-2235	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	OCHF <sub>2</sub>	H	Cl
A-2238 C1 CH <sub>3</sub> OCF <sub>3</sub> H C1 A-2239 CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> H C1 A-2240 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> H C1 A-2241 H CH <sub>3</sub> F F C1 A-2242 F CH <sub>3</sub> F F C1 A-2244 CH <sub>3</sub> CH <sub>3</sub> F F C1 A-2244 CH <sub>3</sub> CH <sub>3</sub> F F C1 A-2245 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F F C1 A-2246 H CH <sub>3</sub> C1 F C1 A-2246 H CH <sub>3</sub> C1 F C1 A-2247 F CH <sub>3</sub> C1 F C1 A-2248 C1 CH <sub>3</sub> C1 F C1 A-2249 CH <sub>3</sub> CH <sub>3</sub> C1 F C1 A-2249 CH <sub>3</sub> CH <sub>3</sub> C1 F C1 A-2250 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> C1 F C1 A-2251 H CH <sub>3</sub> C1 F C1 A-2252 F CH <sub>3</sub> CH <sub>3</sub> C1 F C1 A-2253 C1 CH <sub>3</sub> CH <sub>2</sub> F C1 A-2255 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F C1 A-2256 H CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F C1 A-2256 H CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F C1 A-2257 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F C1 A-2258 C1 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F C1 A-2258 C1 CH <sub>3</sub> CF <sub>3</sub> F C1 A-2258 C1 CH <sub>3</sub> CF <sub>3</sub> F C1 A-2258 C1 CH <sub>3</sub> CF <sub>3</sub> F C1		A-2236	H	CH <sub>3</sub>	OCF <sub>3</sub>	H	Cl
A-2239 CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> H Cl A-2240 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> OCF <sub>3</sub> H Cl A-2241 H CH <sub>3</sub> F F Cl A-2242 F CH <sub>3</sub> F F Cl A-2243 Cl CH <sub>3</sub> F F F Cl A-2244 CH <sub>3</sub> CH <sub>3</sub> F F F Cl A-2244 CH <sub>3</sub> CH <sub>3</sub> F F F Cl A-2245 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F F F Cl A-2246 H CH <sub>3</sub> Cl F Cl A-2247 F CH <sub>3</sub> Cl F Cl A-2248 Cl CH <sub>3</sub> Cl F Cl A-2249 CH <sub>3</sub> CH <sub>3</sub> Cl F Cl A-2249 CH <sub>3</sub> CH <sub>3</sub> Cl F Cl A-2250 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> Cl F Cl A-2251 H CH <sub>3</sub> Cl F Cl A-2252 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F Cl A-2253 Cl CH <sub>3</sub> CH <sub>2</sub> F Cl A-2255 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F Cl A-2256 H CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F Cl A-2257 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F Cl A-2258 Cl CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F Cl A-2258 Cl CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F Cl A-2258 Cl CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F Cl	20	A-2237	F	CH <sub>3</sub>	OCF <sub>3</sub>	H	Cl
A-2240 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> H C1  A-2241 H CH <sub>3</sub> F F F C1  A-2242 F CH <sub>3</sub> F F F C1  A-2243 C1 CH <sub>3</sub> F F F C1  A-2244 CH <sub>3</sub> CH <sub>3</sub> F F F C1  A-2245 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F F F C1  A-2246 H CH <sub>3</sub> CH <sub>3</sub> C1 F C1  A-2247 F CH <sub>3</sub> CH <sub>3</sub> C1 F C1  A-2248 C1 CH <sub>3</sub> C1 F C1  A-2249 CH <sub>3</sub> CH <sub>3</sub> C1 F C1  A-2249 CH <sub>3</sub> CH <sub>3</sub> C1 F C1  A-2250 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> C1 F C1  A-2251 H CH <sub>3</sub> CH <sub>3</sub> C1 F C1  A-2252 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F C1  A-2253 C1 CH <sub>3</sub> CH <sub>2</sub> F C1  A-2254 CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F C1  A-2255 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F C1  A-2256 H CH <sub>3</sub> CH <sub>3</sub> CH <sub>7</sub> F C1  A-2257 F CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F C1  A-2258 C1 CH <sub>3</sub> CF <sub>3</sub> F C1  A-2258 C1 CH <sub>3</sub> CF <sub>3</sub> F C1  A-2258 C1 CH <sub>3</sub> CF <sub>3</sub> F C1  A-2259 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F C1		A-2238	Cl	CH <sub>3</sub>	OCF <sub>3</sub>	H	Cl
A-2241 H CH <sub>3</sub> F F C1 A-2242 F CH <sub>3</sub> F F C1 A-2243 C1 CH <sub>3</sub> F F F C1 A-2244 CH <sub>3</sub> CH <sub>3</sub> F F F C1 A-2244 CH <sub>3</sub> CH <sub>3</sub> F F F C1 A-2245 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F F C1 A-2246 H CH <sub>3</sub> C1 F C1 A-2247 F CH <sub>3</sub> C1 F C1 A-2248 C1 CH <sub>3</sub> C1 F C1 A-2249 CH <sub>3</sub> CH <sub>3</sub> C1 F C1 A-2249 CH <sub>3</sub> CH <sub>3</sub> C1 F C1 A-2250 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> C1 F C1 A-2251 H CH <sub>3</sub> CH <sub>3</sub> C1 F C1 A-2252 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>7</sub> F C1 A-2253 C1 CH <sub>3</sub> CH <sub>7</sub> F C1 A-2254 CH <sub>3</sub> CH <sub>3</sub> CH <sub>7</sub> F C1 A-2255 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>7</sub> F C1 A-2256 H CH <sub>3</sub> CH <sub>7</sub> F C1 A-2257 F CH <sub>3</sub> CH <sub>7</sub> F C1 A-2258 C1 CH <sub>3</sub> CF <sub>3</sub> F C1 A-2258 C1 CH <sub>3</sub> CF <sub>3</sub> F C1 A-2259 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F C1 A-2259 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F C1 A-2259 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F C1	25	A-2239	CH <sub>3</sub>	CH <sub>3</sub>	OCF <sub>3</sub>	H	Cl
A-2242 F CH <sub>3</sub> F F C1 A-2243 C1 CH <sub>3</sub> F F F C1 A-2244 CH <sub>3</sub> CH <sub>3</sub> F F F C1 A-2245 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F F F C1 A-2246 H CH <sub>3</sub> C1 F C1 A-2247 F CH <sub>3</sub> C1 F C1 A-2248 C1 CH <sub>3</sub> C1 F C1 A-2249 CH <sub>3</sub> CH <sub>3</sub> C1 F C1 A-2250 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> C1 F C1 A-2251 H CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F C1 A-2252 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F C1 A-2253 C1 CH <sub>3</sub> CH <sub>2</sub> F C1 A-2253 C1 CH <sub>3</sub> CH <sub>2</sub> F C1 A-2256 H CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F C1 A-2256 H CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F C1 A-2257 F CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F C1 A-2258 C1 CH <sub>3</sub> CF <sub>3</sub> F C1 A-2258 C1 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F C1 A-2259 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F C1 A-2259 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F C1 A-2259 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F C1		A-2240	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	OCF <sub>3</sub>	н	Cl
A-2242 F CH <sub>3</sub> F F F C1  A-2243 C1 CH <sub>3</sub> F F F C1  A-2244 CH <sub>3</sub> CH <sub>3</sub> F F F C1  A-2245 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F F F C1  A-2246 H CH <sub>3</sub> C1 F C1  A-2247 F CH <sub>3</sub> C1 F C1  A-2248 C1 CH <sub>3</sub> CH <sub>3</sub> C1 F C1  A-2249 CH <sub>3</sub> CH <sub>3</sub> C1 F C1  A-2250 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> C1 F C1  A-2251 H CH <sub>3</sub> CH <sub>3</sub> C1 F C1  A-2252 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F C1  A-2253 C1 CH <sub>3</sub> CH <sub>2</sub> F C1  A-2254 CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F C1  A-2255 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F C1  A-2256 H CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F C1  A-2257 F CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F C1  A-2258 C1 CH <sub>3</sub> CF <sub>3</sub> F C1  A-2258 C1 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F C1  A-2259 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> F C1  A-2259 CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> F C1		A-2241	H	CH <sub>3</sub>	F	F	Cl
A-2244		A-2242	F	CH <sub>3</sub>	F	F	Cl
A-2245 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> F F C1  A-2246 H CH <sub>3</sub> C1 F C1  A-2247 F CH <sub>3</sub> C1 F C1  A-2248 C1 CH <sub>3</sub> C1 F C1  A-2249 CH <sub>3</sub> CH <sub>3</sub> C1 F C1  A-2250 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> C1 F C1  A-2251 H CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F C1  A-2252 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F C1  A-2253 C1 CH <sub>3</sub> CH <sub>2</sub> F C1  A-2254 CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F C1  A-2255 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F C1  A-2256 H CH <sub>3</sub> CH <sub>2</sub> F C1  A-2256 H CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F C1  A-2257 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F C1  A-2258 C1 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F C1  A-2258 C1 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F C1  A-2259 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F C1		A-2243	Cl	CH3	F	F	Cl
A-2246 H CH <sub>3</sub> Cl F Cl A-2247 F CH <sub>3</sub> Cl F Cl A-2248 Cl CH <sub>3</sub> Cl F Cl A-2249 CH <sub>3</sub> CH <sub>3</sub> Cl F Cl A-2250 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> Cl F Cl A-2251 H CH <sub>3</sub> CH <sub>5</sub> CH <sub>2</sub> F Cl A-2252 F CH <sub>3</sub> CH <sub>5</sub> CH <sub>7</sub> F Cl A-2253 Cl CH <sub>3</sub> CH <sub>7</sub> CH <sub>7</sub> F Cl A-2254 CH <sub>3</sub> CH <sub>3</sub> CH <sub>7</sub> F Cl A-2255 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>7</sub> F Cl A-2256 H CH <sub>3</sub> CH <sub>7</sub> F Cl A-2256 H CH <sub>3</sub> CH <sub>7</sub> F Cl A-2257 F CH <sub>3</sub> CH <sub>7</sub> F Cl A-2257 F CH <sub>3</sub> CH <sub>7</sub> F Cl A-2258 Cl CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F Cl A-2258 Cl CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F Cl A-2259 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F Cl		A-2244	CH <sub>3</sub>	CH <sub>3</sub>	F	F	Cl
A-2247 F CH <sub>3</sub> Cl F Cl A-2248 Cl CH <sub>3</sub> Cl F Cl A-2249 CH <sub>3</sub> CH <sub>3</sub> Cl F Cl A-2250 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> Cl F Cl A-2251 H CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> F Cl A-2252 F CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> F Cl A-2253 Cl CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> F Cl A-2254 CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F Cl A-2255 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F Cl A-2256 H CH <sub>3</sub> CH <sub>2</sub> F Cl A-2257 F CH <sub>3</sub> CH <sub>2</sub> F Cl A-2257 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F Cl A-2257 F CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F Cl A-2257 F CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F Cl A-2258 Cl CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F Cl A-2258 Cl CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F Cl		A-2245	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	F	F	Cl
A-2248 C1 CH <sub>3</sub> C1 F C1 A-2249 CH <sub>3</sub> CH <sub>3</sub> C1 F C1 A-2250 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> C1 F C1 A-2251 H CH <sub>3</sub> CH <sub>7</sub> CH <sub>7</sub> F C1 A-2252 F CH <sub>3</sub> CH <sub>7</sub> F C1 A-2253 C1 CH <sub>3</sub> CH <sub>7</sub> F C1 A-2254 CH <sub>3</sub> CH <sub>3</sub> CH <sub>7</sub> F C1 A-2255 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>7</sub> F C1 A-2256 H CH <sub>3</sub> CH <sub>7</sub> F C1 A-2257 F CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F C1 A-2257 F CH <sub>3</sub> CF <sub>3</sub> F C1 A-2258 C1 CH <sub>3</sub> CF <sub>3</sub> F C1 A-2258 C1 CH <sub>3</sub> CF <sub>3</sub> F C1 A-2259 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F C1	30	A-2246	H	CH <sub>3</sub>	Cl	F	Cl
A-2249 CH <sub>3</sub> CH <sub>3</sub> Cl F Cl  A-2250 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> Cl F Cl  A-2251 H CH <sub>3</sub> CH <sub>5</sub> CH <sub>5</sub> F Cl  A-2252 F CH <sub>3</sub> CH <sub>5</sub> F Cl  A-2253 Cl CH <sub>3</sub> CH <sub>5</sub> F Cl  A-2254 CH <sub>3</sub> CH <sub>3</sub> CH <sub>5</sub> F Cl  A-2255 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>5</sub> F Cl  A-2256 H CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F Cl  A-2257 F CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F Cl  A-2258 Cl CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F Cl  A-2259 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F Cl		A-2247	F	CH <sub>3</sub>	Cl	F	Cl
35 A-2250 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> Cl F Cl A-2251 H CH <sub>3</sub> CH <sub>7</sub> F Cl A-2252 F CH <sub>3</sub> CH <sub>7</sub> F Cl A-2253 Cl CH <sub>3</sub> CH <sub>7</sub> F Cl A-2254 CH <sub>3</sub> CH <sub>3</sub> CH <sub>7</sub> F Cl A-2255 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>7</sub> F Cl A-2256 H CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F Cl A-2257 F CH <sub>3</sub> CF <sub>3</sub> F Cl A-2258 Cl CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F Cl A-2258 Cl CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F Cl A-2259 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F Cl		A-2248	Cl	CH <sub>3</sub>	Cl	F	Cl
A-2251 H CH <sub>3</sub> CHF <sub>2</sub> F Cl A-2252 F CH <sub>3</sub> CHF <sub>2</sub> F Cl A-2253 Cl CH <sub>3</sub> CHF <sub>2</sub> F Cl A-2254 CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> F Cl A-2255 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> F Cl A-2256 H CH <sub>3</sub> CF <sub>3</sub> F Cl A-2257 F CH <sub>3</sub> CF <sub>3</sub> F Cl A-2257 F CH <sub>3</sub> CF <sub>3</sub> F Cl A-2258 Cl CH <sub>3</sub> CF <sub>3</sub> F Cl A-2259 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F Cl		A-2249	CH <sub>3</sub>	CH <sub>3</sub>	Cl	F	C1
A-2252 F CH <sub>3</sub> CHF <sub>2</sub> F Cl A-2253 Cl CH <sub>3</sub> CHF <sub>2</sub> F Cl A-2254 CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> F Cl A-2255 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> F Cl A-2256 H CH <sub>3</sub> CF <sub>3</sub> F Cl A-2257 F CH <sub>3</sub> CF <sub>3</sub> F Cl A-2258 Cl CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F Cl A-2259 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F Cl	35	A-2250	CH <sub>2</sub> CH <sub>3</sub>	CH3	Cl	F	<u> </u>
A-2253 Cl CH <sub>3</sub> CHF <sub>2</sub> F Cl A-2254 CH <sub>3</sub> CH <sub>3</sub> CH <sub>5</sub> CH <sub>2</sub> F Cl A-2255 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>5</sub> F Cl A-2256 H CH <sub>3</sub> CF <sub>3</sub> F Cl A-2257 F CH <sub>3</sub> CF <sub>3</sub> F Cl A-2258 Cl CH <sub>3</sub> CF <sub>3</sub> F Cl A-2259 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F Cl		A-2251	H	CH3	CHF <sub>2</sub>	F	Cl
A-2254 CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> F C1  A-2255 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>7</sub> F C1  A-2256 H CH <sub>3</sub> CF <sub>3</sub> F C1  A-2257 F CH <sub>3</sub> CF <sub>3</sub> F C1  A-2258 C1 CH <sub>3</sub> CF <sub>3</sub> F C1  A-2259 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F C1	40	A-2252	F	CH3	CHF <sub>2</sub>	F	Cl
A-2255 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CHF <sub>2</sub> F C1  A-2256 H CH <sub>3</sub> CF <sub>3</sub> F C1  A-2257 F CH <sub>3</sub> CF <sub>3</sub> F C1  A-2258 C1 CH <sub>3</sub> CF <sub>3</sub> F C1  A-2259 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F C1		A-2253	Cl	CH3	CHF <sub>2</sub>	F	Cl
A-2256 H CH <sub>3</sub> CF <sub>3</sub> F C1 A-2257 F CH <sub>3</sub> CF <sub>3</sub> F C1 A-2258 C1 CH <sub>3</sub> CF <sub>3</sub> F C1 A-2259 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F C1		A-2254	CH <sub>3</sub>	CH3	CHF <sub>2</sub>	F	Cl
A-2257 F CH <sub>3</sub> CF <sub>3</sub> F Cl A-2258 Cl CH <sub>3</sub> CF <sub>3</sub> F Cl A-2259 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F Cl		A-2255	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	CHF <sub>2</sub>	F	Cl
A-2258 C1 CH <sub>3</sub> CF <sub>3</sub> F C1 A-2259 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F C1		A-2256	H	CH <sub>3</sub>	CF <sub>3</sub>	F	Cl
A-2259 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F C1		A-2257	F	CH <sub>3</sub>	CF <sub>3</sub>	F	Cl
A-2259 CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F Cl	AF	A-2258	Cl	CH <sub>3</sub>	CF <sub>3</sub>	F	Cl
A-2260 CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CF <sub>3</sub> F C1	43	A-2259	CH <sub>3</sub>	CH <sub>3</sub>	CF <sub>3</sub>	F	Cl
		A-2260	CH₂CH3	CH <sub>3</sub>	CF <sub>3</sub>	F	C1

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ſ	No.	R <sup>1</sup>	R <sup>2</sup>	R11	R <sup>12</sup>	R <sup>13</sup>
ſ	A-2261	н	CH <sub>3</sub>	SCHF <sub>2</sub>	F	Cl
Ì	A-2262	F	CH <sub>3</sub>	SCHF <sub>2</sub>	F	C1
5	A-2263	Cl	CH <sub>3</sub>	SCHF <sub>2</sub>	F	Cl
	A-2264	CH <sub>3</sub>	CH <sub>3</sub>	SCHF <sub>2</sub>	F	Cl
ı	A-2265	CH <sub>2</sub> CH <sub>3</sub>	CH3	SCHF <sub>2</sub>	F	Cl
Į	A-2266	H ·	CH <sub>3</sub>	SCF <sub>3</sub>	F	Cl
	A-2267	F	CH <sub>3</sub>	SCF <sub>3</sub>	F	Cl
10	A-2268	Cl	CH <sub>3</sub>	SCF <sub>3</sub>	F	Cl
	A-2269	CH <sub>3</sub>	CH <sub>3</sub>	SCF <sub>3</sub>	F	Cl
1	A-2270	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	SCF <sub>3</sub>	F	Cl
	A-2271	H	CH <sub>3</sub>	OCHF <sub>2</sub>	F	Cl
15	A-2272	F	СН3	OCHF <sub>2</sub>	F	Cl
	A-2273	Cl	CH <sub>3</sub>	OCHF <sub>2</sub>	F	Cl
	A-2274	CH₃	CH <sub>3</sub>	OCHF <sub>2</sub>	F	Cl
1	A-2275	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	OCHF <sub>2</sub>	F	Cl
20	A-2276	H	CH <sub>3</sub>	OCF <sub>3</sub>	F	Cl
	A-2277	F	CH3	OCF <sub>3</sub>	F	C1
	A-2278	C1	CH <sub>3</sub>	OCF <sub>3</sub>	F	Cl
25	A-2279	CH <sub>3</sub>	CH <sub>3</sub>	OCF <sub>3</sub>	F	Cl
	A-2280	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	OCF <sub>3</sub>	F	Cl
	A-2281	H	CH <sub>3</sub>	F	C1	Cl
	A-2282	F	CH <sub>3</sub>	F	Cl	Cl
	A-2283	Cl	CH3	F	Cl	Cl
	A-2284	CH3	CH <sub>3</sub>	F	Cl	Cl
30	A-2285	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	F	Cl	Cl
	A-2286	H	CH <sub>3</sub>	Cl	Cl	Cl
	A-2287	F	CH <sub>3</sub>	C1	Cl	Cl
	A-2288	Cl	CH <sub>3</sub>	Cl	Cl	Cl
35	A-2289	CH <sub>3</sub>	CH3	Cl	Cl	Cl
	A-2290	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	C1	C1	Cl
	A-2291	H .	CH <sub>3</sub>	CHF <sub>2</sub>	Cl	C1
	A-2292	F	CH <sub>3</sub>	CHF <sub>2</sub>	Cl	Cl
40	A-2293	Cl	CH <sub>3</sub>	CHF <sub>2</sub>	Cl	Cl
•	A-2294	CH <sub>3</sub>	CH <sub>3</sub>	CHF <sub>2</sub>	Cl	C1
	A-2295	CH <sub>2</sub> CH <sub>3</sub>	C⊞3	CHF <sub>2</sub>	Cl	C1
	A-2296	H	CH <sub>3</sub>	CF <sub>3</sub>	Cl	Cl
45	A-2297	F	CH <sub>3</sub>	CF <sub>3</sub>	C1	Cl
43	A-2298	Cl	CH <sub>3</sub>	CF <sub>3</sub>	Cl	Cl
	A-2299	CH3	CH <sub>3</sub>	CF <sub>3</sub>	Cl	C1



	36					
ſ	No.	Rl	R <sup>2</sup>	R <sup>11</sup>	R <sup>12</sup>	R <sup>13</sup>
Ī	A-2300	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	CF <sub>3</sub>	Cl	Cl
Ī	A-2301	H	CH <sub>3</sub>	SCHF <sub>2</sub>	Cl	Cl
5	A-2302	F	CH <sub>3</sub>	SCHF <sub>2</sub>	Cl	Cl
	A-2303	Cl	CH <sub>3</sub>	SCHF <sub>2</sub>	Cl	Cl
1	A-2304	CH <sub>3</sub>	CH <sub>3</sub>	SCHF <sub>2</sub>	Cl	Cl
- 1	A-2305	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	SCHF <sub>2</sub>	Cl	Cl
[	A-2306	H	CH <sub>3</sub>	SCF <sub>3</sub>	Cl	Cl
10	A-2307	F	CH <sub>3</sub>	SCF <sub>3</sub>	Cl	Cl
I	A-2308	Cl	CH <sub>3</sub>	SCF <sub>3</sub>	Cl	Cl
Ī	A-2309	CH <sub>3</sub>	CH3	SCF <sub>3</sub>	Cl	Cl
t	A-2310	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	SCF <sub>3</sub>	Cl	Cl
15	A-2311	H	CH3	OCHF <sub>2</sub>	Cl	Cl
1	A-2312	F	CH3	OCHF <sub>2</sub>	Cl	Cl
İ	A-2313	Cl	CH <sub>3</sub>	OCHF <sub>2</sub>	Cl	Cl
	A-2314	CH <sub>3</sub>	CH <sub>3</sub>	OCHF <sub>2</sub>	C1	Cl
20	A-2315	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	OCHF <sub>2</sub>	Cl	Cl
	A-2316	H	CH <sub>3</sub>	OCF <sub>3</sub>	Cl	Cl
	A-2317	F	CH <sub>3</sub>	OCF <sub>3</sub>	Cl	Cl
25	A-2318	C1 .	CH3	OCF <sub>3</sub>	Cl	Cl
	A-2319	CH <sub>3</sub>	CH <sub>3</sub>	OCF <sub>3</sub>	Cl	Cl
	A-2320	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	OCF <sub>3</sub>	Cl	C1
	A-2321	H	CH3	F	CHF <sub>2</sub>	Cl
	A-2322	F	CH <sub>3</sub>	F	CHF <sub>2</sub>	Cl
	A-2323	Cl	CH <sub>3</sub>	F	CHF <sub>2</sub>	Cl
30	A-2324	CH <sub>3</sub>	CH <sub>3</sub>	F	CHF <sub>2</sub>	Cl
	A-2325	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	F	CHF <sub>2</sub>	Cl
	A-2326	H	CH <sub>3</sub>	Cl	CHF <sub>2</sub>	Cl
	A-2327	F	CH <sub>3</sub>	Cl	CHF <sub>2</sub>	Cl
35	A-2328	Cl	CH <sub>3</sub>	Cl	CHF <sub>2</sub>	Cl
	A-2329	CH <sub>3</sub>	CH <sub>3</sub>	Cl	CHF <sub>2</sub>	Cl
40	A-2330	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	Cl	CHF <sub>2</sub>	Cl
	A-2331	н	CH <sub>3</sub>	CHF <sub>2</sub>	CHF <sub>2</sub>	Cl
	A-2332	F	CH <sub>3</sub>	CHF <sub>2</sub>	CHF <sub>2</sub>	Cl
	A-2333	Cl	CH <sub>3</sub>	CHF <sub>2</sub>	CHF <sub>2</sub>	Cl
	A-2334	CH <sub>3</sub>	CH <sub>3</sub>	CHF <sub>2</sub>	CHF <sub>2</sub>	Cl
	A-2335	CH <sub>2</sub> CH <sub>3</sub>	СН3	CHF <sub>2</sub>	CHF <sub>2</sub>	Cl
45	A-2336	B	CH3	CF <sub>3</sub>	CHF <sub>2</sub>	Cl
43	A-2337	F	CH <sub>3</sub>	CF <sub>3</sub>	CHF <sub>2</sub>	Cl
	A-2338	Cl	СН3	CF <sub>3</sub>	CHF <sub>2</sub>	C1

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Γ	No.	R <sup>1</sup>	R <sup>2</sup>	R11	R12	R <sup>13</sup>
- 1	A-2339	CH <sub>3</sub>	CH <sub>3</sub>	CF <sub>3</sub>	CHF <sub>2</sub>	Cl
Ī	A-2340	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	CF <sub>3</sub>	CHF <sub>2</sub>	Cl
5	A-2341	H	CH <sub>3</sub>	SCHF <sub>2</sub>	CHF <sub>2</sub>	Cl
	A-2342	F	CH <sub>3</sub>	SCHF <sub>2</sub>	CHF <sub>2</sub>	Cl
	A-2343	C1	CH <sub>3</sub>	SCHF <sub>2</sub>	CHF <sub>2</sub>	Cl
Ī	A-2344	CH <sub>3</sub>	CH₃	SCHF <sub>2</sub>	CHF <sub>2</sub>	Cl
	A-2345	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	SCHF <sub>2</sub>	CHF <sub>2</sub>	Cl
10	A-2346	H	CH <sub>3</sub>	SCF <sub>3</sub>	CHF <sub>2</sub>	Cl
Ī	A-2347	F	СН3	SCF <sub>3</sub>	CHF <sub>2</sub>	Cl
	A-2348	Cl	CH <sub>3</sub>	SCF <sub>3</sub>	CHF <sub>2</sub>	Cl
	A-2349	CH <sub>3</sub>	CH <sub>3</sub>	SCF <sub>3</sub>	CHF <sub>2</sub>	Cl
15	A-2350	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	SCF <sub>3</sub>	CHF <sub>2</sub>	Cl
Ì	A-2351	H	CH <sub>3</sub>	OCHF <sub>2</sub>	CHF <sub>2</sub>	Cl
	A-2352	F	CH <sub>3</sub>	OCHF <sub>2</sub>	CHF <sub>2</sub>	Cl
	A-2353	Cl	CH₃	OCHF <sub>2</sub>	CHF <sub>2</sub>	Cl
20	A-2354	CH <sub>3</sub>	CH <sub>3</sub>	OCHF <sub>2</sub>	CHF <sub>2</sub>	Cl
	A-2355	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	OCHF <sub>2</sub>	CHF <sub>2</sub>	C1
25	A-2356	н	CH <sub>3</sub>	OCF <sub>3</sub>	CHF <sub>2</sub>	Cl
	A-2357	F	CH <sub>3</sub>	OCF <sub>3</sub>	CHF <sub>2</sub>	Cl
	A-2358	Cl	CH <sub>3</sub>	OCF <sub>3</sub>	CHF <sub>2</sub>	Cl
20	A-2359	CH <sub>3</sub>	CH <sub>3</sub>	OCF <sub>3</sub>	CHF <sub>2</sub>	Cl
	A-2360	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	OCF <sub>3</sub>	CHF <sub>2</sub>	Cl
	A-2361	Н	CH <sub>3</sub>	F	CF <sub>3</sub>	Cl
	A-2362	F	CH3	F	CF <sub>3</sub>	Cl
30	A-2363	Cl	CH <sub>3</sub>	F	CF <sub>3</sub>	Cl
	A-2364	CH <sub>3</sub>	CH <sub>3</sub>	F	CF <sub>3</sub>	Cl
	A-2365	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	F	CF <sub>3</sub>	Cl
	A-2366	н	CH <sub>3</sub>	Cl	CF <sub>3</sub>	Cl
35	A-2367	F	CH <sub>3</sub>	Cl	CF <sub>3</sub>	Cl
	A-2368	Cl	CH <sub>3</sub>	Cl	CF <sub>3</sub>	Cl
40	A-2369	CH <sub>3</sub>	CE <sub>3</sub>	Cl	CF <sub>3</sub>	Cl
	A-2370	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	Cl	CF <sub>3</sub>	Cl
	A-2371	H	CH <sub>3</sub>	CHF <sub>2</sub>	CF <sub>3</sub>	Cl
-	A-2372	F	CH <sub>3</sub>	CHF <sub>2</sub>	CF <sub>3</sub>	Cl
	A-2373	Cl	CH <sub>3</sub>	CHF <sub>2</sub>	CF <sub>3</sub>	C1
	A-2374	CH <sub>3</sub>	CH3	CHF <sub>2</sub>	CF <sub>3</sub>	C1
45	A-2375	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	CHF <sub>2</sub>	CF <sub>3</sub>	Cl
43	A-2376	H	CH <sub>3</sub>	CF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-2377	F	CH <sub>3</sub>	CF <sub>3</sub>	CF <sub>3</sub>	Cl



į	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>11</sup>	R <sup>12</sup>	R <sup>13</sup>
	A-2378	Cl	CH3	CF <sub>3</sub>	CF <sub>3</sub>	Cl
:	A-2379	CH <sub>3</sub>	CH <sub>3</sub>	CF <sub>3</sub>	CF <sub>3</sub>	Cl
5	A-2380	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	CF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-2381	H	CH <sub>3</sub>	SCHF <sub>2</sub>	CF <sub>3</sub>	Cl
	A-2382	F	CH <sub>3</sub>	SCHF <sub>2</sub>	CF <sub>3</sub>	Cl
	A-2383	Cl	CH <sub>3</sub>	SCHF <sub>2</sub>	CF <sub>3</sub>	Cl
10	A-2384	CH <sub>3</sub>	CH <sub>3</sub>	SCHF <sub>2</sub>	CF <sub>3</sub>	Cl
10	A-2385	CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	SCHF <sub>2</sub>	CF <sub>3</sub>	Cl
	A-2386	H	CH <sub>3</sub>	SCF <sub>3</sub>	CF <sub>3</sub>	Cl
1	A-2387	F	СH <sub>3</sub>	SCF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-2388	C1	СH <sup>3</sup>	SCF <sub>3</sub>	CF <sub>3</sub>	Cl
15	A-2389	CH <sub>3</sub>	CH₃	SCF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-2390	СH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	SCF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-2391	н	CH <sub>3</sub>	OCHF <sub>2</sub>	CF <sub>3</sub>	Cl
	A-2392	F	CH <sub>3</sub>	OCHF <sub>2</sub>	CF <sub>3</sub>	Cl
20	A-2393	Cl	CH <sub>3</sub>	OCHF <sub>2</sub>	CF <sub>3</sub>	Cl
	A-2394	CH <sub>3</sub>	CH <sub>3</sub>	OCHF <sub>2</sub>	CF <sub>3</sub>	Cl
25	A-2395	CH <sub>2</sub> CH <sub>3</sub>	CH3	OCHF <sub>2</sub>	CF <sub>3</sub>	Cl
	A-2396	H	CH <sub>3</sub>	OCF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-2397	F	CH <sub>3</sub>	OCF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-2398	Cl	CH <sub>3</sub>	OCF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-2399	CH <sub>3</sub>	CH <sub>3</sub>	OCF <sub>3</sub>	CF <sub>3</sub>	Cl
	A-2400	CH <sub>2</sub> CH <sub>3</sub>	CH3	OCF <sub>3</sub>	CF <sub>3</sub>	Cl

With respect to their use, very particular preference is given to the compounds I'' ( $R^2$ ,  $R^3$ ,  $R^4$ ,  $R^5$ ,  $R^6$ ,  $R^9$ ,  $R^{10}$ ,  $R^{14}$  and  $R^{15}$  are hydrogen and R8 is methyl)

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15

10

and in which

is hydrogen, fluorine or methyl;

20 R7 is hydrogen, methyl or ethyl;

R11 is chlorine;

R12 is trifluoromethyl;

25

R13 is hydrogen.

with respect to their use, very particular preference is also given to the compounds I'' in which

30

 $\mathbb{R}^1$ is hydrogen, fluorine or methyl;

is hydrogen, methyl or ethyl;

35 R11 is trifluoromethyl;

R12 is hydrogen;

R13 is fluorine.

As mentioned at the outset, the S enantiomers or S diastereomers, with reference to the  $\alpha$  carbon atom of the compounds listed in tables 1 to 96 are preferred.

The substituted phenylalanine derivatives of the formula I can be obtained by different routes, for example by solid-phase synthesis according to process 1 or 2:

### 5 Process 1:

A) Linking the phenylalanine derivative to a carrier resin

How to attach amino acid derivatives to a carrier resin is known 20 and described, for example, in Barlos K. et al., Int J Pept Protein Res 37 (1991), 513; Barlos K. et al., Int J Pept Protein Res 47 (1991), 148; Barlos K. et al., Tetrahedron Lett. 30 (1989), 3943; Barlos K. et al., Tetrahedron Lett. 32 (1991), 471; Chhabra S.R. et al., Tetrahedron Lett. 39 (1998), 1603. A 25 phenylalanine derivative II protected at the nitrogen function by a protective group X, for example by a 9-fluorenylmethoxycarbonyl (FMOC) protective group, a phenylmethoxycarbonyl (Cbz) group, a nitrobenzenelsulfenyl (Nps) group or a 1,1-dimethylethoxycarbonyl (Boc) group, is, in an esterification, attached to a resin which 30 carries hydroxyl groups (see Scheme 1). The preparation of compounds II is known and is carried out analogously to known methods as described, for example, in Barlos K. et al., Int J Pept Protein Res 37 (1991), 513; Barlos K. et al., Int J Pept Protein Res 47 (1991), 148; Barlos K. et al., Tetrahedron Lett. 35 30 (1989), 3943; Barlos K. et al., Tetrahedron Lett. 32 (1991), 471; Chhabra S.R. et al., Tetrahedron Lett. 39 (1998), 1603. Furthermore, a large number of compounds II is commercially available. Here, the esterification is preferably carried out in the presence of a base, the ratio of base to compound II being 40 approximately 2:1. Examples of suitable bases are amines, such as ethyldiisopropylamine, triethylamine or N-methylmorpholine. Suitable resins are for example resins based on polystyrene and having Wang or trityl linkers. The reaction is generally carried out in an inert organic solvent, for example an aromatic 45 hydrocarbon such as benzene or toluene, or in a chlorinated hydrocarbon such as dichloromethane, or in an aprotic dipolar

organic solvent such as dimethylformamide (DMF),

dimethylacetamide (DMA) or N-methylpyrrolidone (NMP), or in an ether such as methyl t-butyl ether, diethyl ether or tetrahydrofuran (THF). The reaction can be carried out at temperatures of from O°C to the boiling point of the reaction 5 mixture, preferably at room temperature.

## B) Removal of the protective group X

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$$R^{1}$$
 $R^{6}$ 
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In step B, the protective group X (see Scheme 2) is removed

20 similarly to known methods, in the case of an FMOC protective
group by adding a base such as, for example, piperidine or
1,5-diazabicyclo[4.3.0]non-5-ene in an aprotic dipolar organic
solvent such as dimethylformamide (DMF), dimethylacetamide (DMA)
or N-methylpyrrolidone (NMP) in a ratio of 1:1 to 1:5, giving

25 compounds IV. The reaction can be carried out at temperatures of
from O°C to the boiling point of the reaction mixture, preferably
at room temperature.

# C) N-Acylation

The N-acylation of step C can be carried out a) using a substituted benzoic acid V (process variant C.1) or b) using a benzoic acid derivative, for example a substituted benzoyl halide VI (process variant C.2), similarly to known processes, as described, for example, in Neustadt B.R. et al., Tetrahedron Lett. 39 (1998), 5317.

C.1) N-Acylation using a substituted benzoic acid

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Scheme 3

Using compounds VI, compounds V can be converted into compounds VIII (see Scheme 3), for example by activating the carboxyl group 15 of V with electrophilic reagents such as, for example, dicyclohexylcarbodiimide (DCC) or diisopropylcarbodiimide (DIC) in the presence of a catalytic amount of an organic base such as, for example, 4-dimethylaminopyridine or pyridine. If appropriate, further activation of the reaction can be achieved by using 20 1-hydroxybenzotriazole. The reaction is carried out until complete conversion is achieved, over a period of 4-12h at temperatures of from 0°C to the boiling point of the reaction mixture, preferably at room temperature, in an inert organic solvent such as, for example, an aromatic hydrocarbon, such as 25 benzene or toluene, or in a chlorinated hydrocarbon, such as dichloromethane, or in organic solvents, such as dimethylformamide (DMF), dimethylacetamide (DMA) or N-methylpyrrolidone (NMP), methyl t-butyl ether, diethyl ether or tetrahydrofuran (THF). The compounds V can be prepared similarly 30 to known processes, as described, for example, in Houben-Weyl, "Methoden der organischen Chemie" [Methods of Organic Chemistry], 4th edition, Ed. J. Talbe, New York 1985, pp. 193-585. Furthermore, a large number of compounds V is also commercially available.

C.2) N-Acylation using a substituted benzoyl halide

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$$R^{1}$$
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To prepare compound VIII, compound IV can be reacted with a 15 substituted benzoyl halide VI, by adding an organic base such as triethylamine, N-methylmorpholine or diisopropylethylamine (DIPEA) or else pyridine, if appropriate in the presence of a catalytic amount of 4-dimethylaminopyridine (see Scheme 4). The reaction takes place at temperatures of from O°C to the boiling

20 point of the reaction mixture, preferably at room temperature, in an inert organic solvent, such as, for example, an aromatic hydrocarbon, such as benzene or toluene, or in a chlorinated hydrocarbon, such as dichloromethane, or in organic solvents such as dimethylformamide (DMF), dimethylacetamide (DMA),

25 N-methylpyrrolidone (NMP), methyl t-butyl ether, diethyl ether or tetrahydrofuran (THF). The compounds VI can be prepared similarly to known methods, as described, for example, in Houben-Weyl, "Methoden der organischen Chemie", 4<sup>th</sup> edition, Ed. J. Talbe, pp. 587-615. Furthermore, a large number of the compounds VI is also commercially available.

The derivatized amino acid attached to the resin is then cleaved from the resin using an acid, such as trifluoroacetic acid or acetic acid, in a polar solvent, such as 2,2,2-trifluoroethanol, 35 dichloromethane or mixtures of the solvents mentioned above, if appropriate in the presence of water. It is possible to use, for example, mixtures of 2,2,2-trifluoroethanol / acetic acid / dichloromethane.

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D) Conversion of the N-substituted phenylalanine derivative into compound I

Scheme 5

- 15 The conversion of the compound VIII into the phenylalanine derivatives of the formula I is carried out similarly to processes known from the literature, as described, for example, in Guan et al., J. Comb. Chem. 2 (2000), 297. Thus, the conversion of the derivatized amino acid into the amide I
- 20 according to the invention can be carried out by adding an amine of the formula IX (see Scheme 5) in the presence of a resin-bound condensing agent, such as, for example, polystyrene-bound dicyclohexylcarbodiimide, at temperatures of from O°C to the boiling point of the reaction mixture, preferably at room
- 25 temperature, in an inert aprotic dipolar organic solvent, such as dimethylformamide (DMF), dimethylacetamide (DMA) or N-methylpyrrolidone (NMP). Amines of the formula IX can be synthesized similarly to methods known to the person skilled in the art. Moreover, a large number of the amines IX is
  30 commercially available.

# Process 2

Process 2 describes the preparation of compounds I in which  $R^9 = 35$  hydrogen.

A Reductive amination of a polymer resin X

Scheme 6

The reductive amination of a polymer-bound aldehyde is carried 45 out similarly to known methods as described, for example, in Fivush et al., Tetrahedron Lett. 38 (1997), 7151; del Fresno et

al., Tetrahedron Lett. <u>39</u> (1998), 2639 and Bilodeau et al., J Org Chem. <u>63</u> (1998), 2800.

A suitable polymer resin, for example a

- 5 4-(4-formyl-3-methoxyphenoxy)butyrylaminomethylpolystyrene resin (Pol-CHO) X is, in the presence of a reducing agent, such as sodium cyanoborohydride or else sodium trisacetoxyborohydrid, if appropriate with addition of acetic acid, methanol or ethanol, reacted in an organic solvent, such as dimethylformamide (DMF),
- 10 dimethylacetamide (DMA) or N-methylpyrrolidone (NMP), with an amine IX, giving an aminated resin XI (see Scheme 6). The reaction is carried out until complete conversion is achieved, for a period of 12-24h, at temperatures of from O°C to the boiling point of the reaction mixture, preferably at 40-60°C.

15

N-Acylation using a substituted phenylalanine derivative

Scheme 7

The compounds XI can be reacted with a phenylalanine derivative II which is protected at the nitrogen function by a protective 30 group X, for example by a 9-fluorenylmethoxycarbonyl (FMOC) protective group, a phenylmethoxycarbonyl (Cbz) group, a nitrobenzenesulfenyl (Nps) group or a 1,1-dimethylethoxycarbonyl (Boc) group, to give the compounds XII. This can be achieved, for example, by activating the carboxyl group of II with

- 35 electrophilic reagents, such as, for example, benzotriazol-1-yloxytrispyrrolidinophosphonium hexafluorophosphate (PyBOP) or else with the aid of condensing agents, such as dicyclohexylcarbodiimide (DCC) or disopropylcarbodiimide and addition of a catalytic amount of an
- 40 organic base, such as, for example, N-methylmorpholine or 4-dimethylaminopyridine. The reaction is carried out until complete conversion is achieved, for a period of 12-24h, at temperatures of from 0°C to the boiling point of the reaction mixture, preferably at room temperature, in an inert organic
- 45 solvent, such as, for example, an aromatic hydrocarbon, such as benzene or toluene, or in a chlorinated hydrocarbon, such as dichloromethane, or in organic solvents, such as

dimethylformamide (DMF), dimethylacetamide (DMA), N-methylpyrrolidone (NMP), methyl t-butyl ether, diethyl ether or tetrahydrofuran (THF).

# Removal of the protective group X

The protective group X is removed analogously to step B of process 1, giving compounds XIII

#### N-Acylation D)

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The subsequent N-acylation to give the compounds I can be carried out similarly to the procedure described in step C.1 or C.2 of process 1, using a) a substituted benzoic acid V or [lacuna] a benzoic acid derivative, for example a substituted benzoyl halide 25 VI, giving the compounds XIV

30

$$R^{2}$$
 $R^{1}$ 
 $R^{6}$ 
 $R^{7}$ 
 $R^{1}$ 
 $R^{10}$ 
 $R^{10}$ 
 $R^{10}$ 
 $R^{10}$ 
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 $R^{10}$ 
 $R^{10}$ 
 $R^{10}$ 
 $R^{10}$ 
 $R^{10}$ 
 $R^{10}$ 
 $R^{10}$ 
 $R^{10}$ 

35

The derivatized amino acid which is attached to the resin is then cleaved from the resin using an acid, such as trifluoroacetic acid or acetic acid, in a polar solvent, such as

40 2,2,2-trifluoroethanol, dichloromethane or mixtures of the solvents mentioned above, if appropriate in the presence of water. It is possible, for example, to use mixtures of 2,2,2-trifluoroethanol / acetic acid / dichloromethane, giving the compounds I in which R9 = hydrogen.

It is furthermore possible to prepare compounds I in liquid phase.

Process 3

5

# A) Amination

Here, a phenylalanine derivative II protected at the nitrogen function by a protective group X, for example by a

10 9-fluorenylmethoxycarbonyl (FMOC) protective group, a phenylmethoxycarbonyl (Cbz) group, a nitrobenzenesulfenyl (Nps) group or a 1,1-dimethylethoxycarbonyl (Boc) group, is initially reacted with an amine IX in the presence of a suitable condensing agent, such as, for example, dicyclohexylcarbodiimide or

15 diisopropylcarbodiimide, to give the compounds XV

20

25

If appropriate, further activation of the reaction can be achieved by using 1-hydroxybenzotriazole. The reaction is carried out until complete conversion has been achieved, over a period of 4-12h, at temperatures of from O°C to the boiling point of the 30 reaction mixture, preferably at room temperature, in an inert organic solvent, such as, for example, an aromatic hydrocarbon, such as benzene or toluene, or in a chlorinated hydrocarbon, such as dichloromethane, or in organic solvents, such as dimethylformamide (DMF), methyl t-butyl ether, diethyl ether or 35 tetrahydrofuran (THF). The reaction is carried out similarly to known methods as described, for example, in Bouygues et al., Med. Chem. 33 (1998) 445-450.

# B) Removal of the protective group X

40

Depending on the protective group used, the protective group X is removed under basic, acidic or reductive conditions, for the Fmoc protective group, for example, analogously to step B of process 1, giving compounds XVI

# 10 C) N-Acylation

The subsequent N-acylation to give the compounds I can be carried out similarly to the procedure described in step C.1 or C.2 of process 1, using a) a substituted benzoic acid V or [lacuna] a 15 benzoic acid derivative, for example a substituted benzoyl halide VI.

#### Process 4

20 Substituted phenylalanine derivatives I in which  $R^{10} = \text{hydrogen}$  can also be prepared analogously to the "malonic ester synthesis" using an aminomalonic acid ester such as diethyl aminomalonate.

Step A)

25

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Here, the salt (for example the chloride) of an ammoniummalonic acid ester

- 35 in which R' is a low-molecular-weight organic radical, for example a C<sub>1</sub>-C<sub>4</sub>-alkyl radical, preferably an easily obtainable, cheap compound, such as, for example, diethyl aminomalonate or dimethyl aminomalonate is initially reacted
- 40 with a substituted benzoic acid, for example a substituted benzoyl halide VI, in the presence of a base, such as ethyldiisopropylamine, triethylamine or N-methylmorpholine, giving compounds XVII

5

IIVX

The reaction is carried out until complete conversion has been achieved, for a period of 4-12h, at temperatures of from -15°C to 15 the boiling point of the reaction mixture, preferably at 0°C, in an inert organic solvent, such as, for example, an aromatic hydrocarbon, such as benzene or toluene, or in a chlorinated hydrocarbon, such as dichloromethane, or in organic solvents, such as dimethylformamide (DMF), methyl t-butyl ether, diethyl ether or tetrahydrofuran (THF).

Step B)

The product obtained in step A) is reacted with a benzyl 25 derivative XVIII

IIIVX

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carrying a leaving group z, in an organic solvent, such as, for example, a cyclic ether, such as tetrahydrofuran (THF) or dioxane, in the presence of a base such as potassium tert-butoxide, sodium ethoxide, potassium carbonate or sodium 40 carbonate, to give the diesters XIX

5

Suitable leaving groups z are, for example, halide or organosulfonyl groups. The reaction is carried out until complete 15 conversion has been achieved, for a period of 4-12h, at temperatures of from 0°C to the boiling point of the reaction mixture, preferably at 80°C.

XIX

Step C)

20

Decarboxylation and hydrolysis of the diester XIX to give the compounds XX

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35 are carried out in the presence of a base and water, for example aqueous sodium hydroxide solution or aqueous potassium hydroxide solution, in one of the organic solvents mentioned in step B. The mixture is subsequently neutralized to a pH below 7, preferably a pH of 1-2, using a strong mineral acid, such as, for example, 40 hydrochloric acid.

Step D)

The reaction of the acid of XX with an amine IX in the presence of resin-bound dicyclohexylcarbodiimide (DCC) is carried out analogously to the reaction conditions described in process 1, 5 step D.

#### Process 5

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40

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Alternatively, the compounds of the formula 1 according to the 10 invention can also be obtained by reacting the benzyl derivative XVIII with an alkylating agent XXI to give the compounds XXII. The methods for this purpose are known to the person skilled in the art (see, for example, 0 Donnell et al., Aldrichimica Acta Vol. 34 No. 1, 2001, pages 3 to 15) known.

20

Ph

(Sg = C<sub>1</sub>\_C<sub>4</sub> Alkyl)

Ph

O-Sg

R<sup>2</sup>

R<sup>3</sup>

R<sup>4</sup>

XXIII

XXIII

Scheme 8

The further conversion into XXIII can be carried out analogously to the methods described in process 1, step C.1 or step C.2 by reacting the compound XXII with the benzyl derivative V or VI to 30 give compound XXIII.

35  $R^{1}$   $R^{6}$   $R^{7}$  O O-Sg  $R^{10}$  NH  $R^{11}$   $R^{12}$   $R^{13}$   $R^{14}$ 

Subsequent conversion of XXIII into the compounds I can be effected using amine IX. Methods for this purpose can be found, for example, in DE 3917880 or J. het. Chem. 1991, 28, 33 ff.

The compounds I and their agriculturally useful salts are suitable, both in the form of isomer mixtures and in the form of the pure isomers, as herbicides. The herbicidal compositions comprising compounds of the formula I control vegetation on 5 non-crop areas very efficiently, especially at high rates of application. They act against broad-leaved weeds and harmful grasses in crops such as wheat, rice, maize, soya and cotton without causing any significant damage to the crop plants. This effect is mainly observed at low rates of application.

10

Depending on the application method used, the compounds I or the herbicidal compositions comprising them, can additionally be employed in a further number of crop plants for eliminating undesirable plants. Examples of suitable crops are the following:

15

Allium cepa, Ananas comosus, Arachis hypogaea, Asparagus officinalis, Beta vulgaris spec. altissima, Beta vulgaris spec. rapa, Brassica napus var. napus, Brassica napus var. napobrassica, Brassica rapa var. silvestris, Camellia sinensis,

- 20 Carthamus tinctorius, Carya illinoinensis, Citrus limon, Citrus sinensis, Coffea arabica (Coffea canephora, Coffea liberica), Cucumis sativus, Cynodon dactylon, Daucus carota, Elaeis guineensis, Fragaria vesca, Glycine max, Gossypium hirsutum, (Gossypium arboreum, Gossypium herbaceum, Gossypium vitifolium),
- 25 Helianthus annuus, Hevea brasiliensis, Hordeum vulgare, Humulus lupulus, Ipomoea batatas, Juglans regia, Lens culinaris, Linum usitatissimum, Lycopersicon lycopersicum, Malus spec., Manihot esculenta, Medicago sativa, Musa spec., Nicotiana tabacum (N.rustica), Olea europaea, Oryza sativa, Phaseolus lunatus,
- 30 Phaseolus vulgaris, Picea abies, Pinus spec., Pisum sativum, Prunus avium, Prunus persica, Pyrus communis, Ribes sylvestre, Ricinus communis, Saccharum officinarum, Secale cereale, Solanum tuberosum, Sorghum bicolor (s. vulgare), Theobroma cacao, Trifolium pratense, Triticum aestivum, Triticum durum, Vicia
- 35 faba, Vitis vinifera and Zea mays.

In addition, the compounds I may also be used in crops which tolerate the action of herbicides owing to breeding, including genetic engineering methods.

40

Furthermore, the compounds of the formula I are also suitable for regulating the growth of plants of plants.

The compounds I, or the herbicidal compositions comprising them, can be used for example in the form of ready-to-spray aqueous solutions, powders, suspensions, also highly-concentrated
5 aqueous, oily or other suspensions or dispersions, emulsions, oil dispersions, pastes, dusts, materials for broadcasting or granules, by means of spraying, atomizing, dusting, broadcasting or watering. The use forms depend on the intended aims; in any case, they should ensure a very fine distribution of the active 10 compounds according to the invention.

Essentially, suitable inert auxiliaries include:
mineral oil fractions of medium to high boiling point, such as
kerosene and diesel oil, furthermore coal tar oils and oils of
15 vegetable or animal origin, aliphatic, cyclic and aromatic
hydrocarbons, e.g. paraffins, tetrahydronaphthalene, alkylated
naphthalenes and their derivatives, alkylated benzenes and their
derivatives, alcohols such as methanol, ethanol, propanol,
butanol and cyclohexanol, ketones such as cyclohexanone, or
20 strongly polar solvents, e.g. amines such as N-methylpyrrolidone,
and water.

Aqueous use forms can be prepared from emulsion concentrates, suspensions, pastes, wettable powders or water-dispersible

25 granules by adding water. To prepare emulsions, pastes or oil dispersions, the phenylalanine derivatives, either as such or dissolved in an oil or solvent, can be homogenized in water by means of a wetting agent, tackifier, dispersant or emulsifier. Alternatively, it is possible to prepare concentrates consisting of active substance, wetting agent, tackifier, dispersant or emulsifier and, if desired, solvent or oil, which are suitable for dilution with water.

Suitable surfactants (adjuvants) are the alkali metal salts,
35 alkaline earth metal salts and ammonium salts of aromatic sulfonic acids, e.g. ligno-, phenol-, naphthalene- and dibutylnaphthalenesulfonic acid, and of fatty acids, alkyl- and alkylarylsulfonates, alkyl sulfates, lauryl ether sulfates and fatty alcohol sulfates, and salts of sulfated hexa-, hepta- and octadecanols, and also of fatty alcohol glycol ethers, condensates of sulfonated naphthalene and its derivatives with formaldehyde, condensates of naphthalene, or of the naphthalenesulfonic acids with phenol and formaldehyde, polyoxyethylene octylphenol ether, ethoxylated isooctyl-, octyl-45 or nonylphenol, alkylphenyl or tributylphenyl polyglycol ether, alkylaryl polyether alcohols, isotridecyl alcohol, fatty alcohol/ethylene oxide condensates, ethoxylated castor oil,

polyoxyethylene alkyl ethers or polyoxypropylene alkyl ethers, lauryl alcohol polyglycol ether acetate, sorbitol esters, lignosulfite waste liquors or methylcellulose.

- 5 Powders, materials for broadcasting and dusts can be prepared by mixing or grinding the active substances together with a solid carrier.
- Granules, e.g. coated granules, impregnated granules and
  10 homogeneous granules, can be prepared by binding the active
  compounds to solid carriers. Solid carriers are mineral earths,
  such as silicas, silica gels, silicates, talc, kaolin, limestone,
  lime, chalk, bole, loess, clay, dolomite, diatomaceous earth,
  calcium sulfate, magnesium sulfate, magnesium oxide, ground
  15 synthetic materials, fertilizers such as ammonium sulfate,
  ammonium phosphate, ammonium nitrate and ureas, and products of
  vegetable origin, such as cereal meal, tree bark meal, wood meal
  and nutshell meal, cellulose powders, or other solid carriers.
- 20 The concentrations of the active compounds of the formula I in the ready-to-use preparations can be varied within wide ranges. In general, the formulations comprise from about 0.001 to 98% by weight, preferably from 0.01 to 95% by weight of at least one active compound. The active compounds are employed in a purity of from 90% to 100%, preferably from 95% to 100% (according to the NMR spectrum).

The compounds I according to the invention can be formulated, for example, as follows:

- 30
- 20 parts by weight of the compound No. I-19 are dissolved in a mixture consisting of 80 parts by weight of alkylated benzene, 10 parts by weight of the adduct of 8 to 10 mol of ethylene oxide to 1 mol of oleic acid N-monoethanolamide, 5 parts by weight of calcium dodecylbenzenesulfonate and 5 parts by weight of the adduct of 40 mol of ethylene oxide to 1 mol of castor oil. Pouring the solution into 100,000 parts by weight of water and finely distributing it therein gives an aqueous dispersion which comprises 0.02% by weight of the active compound.
- 11. 20 parts by weight of the compound No. I-24 are dissolved in a mixture consisting of 40 parts by weight of cyclohexanone, 30 parts by weight of isobutanol, 20 parts by weight of the adduct of 7 mol of ethylene oxide to 1 mol of isooctylphenol and 10 parts by weight of the adduct of 40 mol of ethylene oxide to 1 mol of castor oil. Pouring

2.50

the solution into 100,000 parts by weight of water and finely distributing it therein gives an aqueous dispersion which comprises 0.02% by weight of the active compound.

- 5 III. 20 parts by weight of the active compound No. I-25 are dissolved in a mixture consisting of 25 parts by weight of cyclohexanone, 65 parts by weight of a mineral oil fraction of boiling point 210 to 280°C and 10 parts by weight of the adduct of 40 mol of ethylene oxide to 1 mol of castor oil.

  10 Pouring the solution into 100,000 parts by weight of water and finely distributing it therein gives an aqueous dispersion which comprises 0.02% by weight of the active compound.
- 15 IV. 20 parts by weight of the active compound No. I-32 are mixed thoroughly with 3 parts by weight of sodium diisobutylnaphthalenesulfonate, 17 parts by weight of the sodium salt of a lignosulfonic acid from a sulfite waste liquor and 60 parts by weight of pulverulent silica gel,
  20 and the mixture is ground in a hammer mill. Finely distributing the mixture in 20,000 parts by weight of water gives a spray mixture which comprises 0.1% by weight of the active compound.
- 25 V. 3 parts by weight of the active compound No. I-49 are mixed with 97 parts by weight of finely divided kaolin. This gives a dust which comprises 3% by weight of the active compound.
- 30 VI. 20 parts by weight of the active compound No. I-44 are mixed intimately with 2 parts by weight of the calcium salt of dodecylbenzenesulfonate, 8 parts by weight of fatty alcohol polyglycol ether, 2 parts by weight of the sodium salt of a phenol/urea/formaldehyde condensate and 68 parts by weight of a paraffinic mineral oil. This gives a stable oily dispersion.
- VII. 1 part by weight of the compound No. I-26 is dissolved in a mixture consisting of 70 parts by weight of cyclohexanone,
  20 parts by weight of ethoxylated isooctylphenol and 10 parts by weight of ethoxylated castor oil. This gives a stable emulsion concentrate.
- VIII. 1 part by weight of the compound No. I-3 is dissolved in a mixture consisting of 80 parts by weight of cyclohexanone and 20 parts by weight of Wettol<sup>®</sup> EM 31 (nonionic

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#### 118

emulsifier based on ethoxylated castor oil). This gives a stable emulsion concentrate.

The active compounds I or the herbicidal compositions can be

5 applied pre- or post-emergence. If the active compounds are less
well tolerated by certain crop plants, application techniques may
be used in which the herbicidal compositions are sprayed, with
the aid of the spraying equipment, in such a way that they come
into contact as little as possible, if at all, with the leaves of
the sensitive crop plants, while the active compounds reach the
leaves of undesirable plants growing underneath, or the bare soil
surface (post-directed, lay-by).

The growth-regulating compositions can be applied by the pre-emergence method or by the post-emergence method.

Depending on the season, the control target, the target plants and the growth stage, the application rates of the growthregulating compositions of the formula I are, when used to regulate growth, from 0.001 to 5.0, preferably from 0.01 to 1.0, kg of active substance (a.s.)/ha:

The compounds of the formula I are capable of influencing

25 virtually all development stages of a plant in various ways and are therefore used as growth regulators. The wide range of activity of the plant growth regualtors depends in particular

- a) on the plant species and variety;
- 30 b) on the time of application, based on the stage of development of the plant, and on the season;
  - c) on the site of application and method of application, for example (seed dressing, soil treatment, foliage application or trunk injection in the case of trees
  - d) on climatic factors, for example temperature, amount of precipitation and also length of day and intensity of light;
  - e) on the soil characteristics (including fertilizer application),
- 40 f) on the formulation or application form of the growthregulating composition of the formula I and finally
  - g) on the concentrations in which the active substance is used.
- 45 Of the number of different possible methods of application of the compound I as growth regulator in plant cultivation, in

A ...

agriculture and in horticulture, some are stated below.

A. The compounds which can be used according to the invention permit considerable inhibition of the vegetative growth of the plants, which is evident in particular from a reduction in the growth in length. Accordingly, the treated plants exhibit stunted growth; in addition, a dark leaf coloration is observed. Reduced intensity of the growth of grasses at the edges of roads, in hedges, on canal embankments and on lawn areas such as parks, sports facilities, orchards, ornamental lawns and airfields, proves advantageous in practice, making it possible to reduce the labor-intensive and expensive cutting of grass.

The increase in the stability of crops susceptible to lodging, such as cereals, corn, sunflowers and soybean, is also of economic interest. The resulting shortening and strengthening of the stem reduce or eliminate the danger of lodging (bending) of plants under unfavorable weather conditions prior to harvesting.

The use of growth regulators for inhibiting the growth in length and for changing the time of ripening of cotton is also important. This permits completely mechanized harvesting of this important crop.

In the case of fruit trees and other trees, the growth regulators can be used to save pruning costs. In addition, the alternate bearing of fruit trees can be broken by means of growth regulators.

By using growth regulators, it is also possible to increase or inhibit the lateral branching of the plants. This is of interest when, for example in the case of tobacco plants, it is intended to inhibit the formation of side shoots in favor of leaf growth.

Growth regulators can also be used to effect a considerable increase in frost resistance, for example in the case of winter rape. On the one hand, the growth in length and the development to form a leaf or plant mass which is excessively luxuriant (and therefore particularly susceptible to frost) are inhibited. On the other hand, the young rape plants are held back in the vegetative stage of development after sowing and prior to the onset of the winter frosts, in spite of favorable growth conditions. This also eliminates the danger of frost damage to plants which tend toward a premature decline in the inhibition of blooming and toward a transition into the generative phase. In other crops too, for example winter cereals, it is advantageous

(3)

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if the crops are well tillered as a result of treatment with novel compounds in the fall but do not begin the winter with excessively luxuriant foliage. Increased sensitivity to frost and, owing to the relatively small leaf or plant mass, attack by various diseases (for example fungal disease) can thus be prevented. In addition, the inhibition of vegetative growth permits denser planting of the soil in the case of many crops, so that it is possible to achieve a higher yield, based on the soil area.

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B. With the compounds of the formula I, it is possible to achieve higher yields of both plant parts and plant ingredients. Thus, it is possible, for example, to induce the growth of larger amounts of buds, blooms, leaves, fruits, seeds, roots and tubers, to increase the content of sugar in sugar beets, sugar cane and citrus fruits, to increase the protein content of cereals or soybean or to stimulate greater latex flow in rubber trees. The compounds of the formula I can produce increases in the yield by intervening in the metabolism of the plant or by promoting or inhibiting the vegetative and/or generative growth.

C. Finally, plant growth regulators can be used both for shortening or lengthening the stages of development and for accelerating or slowing down the ripening of the plant parts to be harvested prior to the harvest or of the harvested plant parts after harvesting.

For example, facilitating harvesting is of commercial interest and is permitted by concentrated dropping of fruit or a reduction of the strength of attachment to the tree in the case of citrus fruits, olives or other species and varieties of pomes, drupes and shell fruit. The same mechanism, ie. the promotion of the formation of abscission tissue between fruit part or leaf part and shoot part of the plant is also essential for readily controllable defoliation of useful plants, for example cotton.

D. Furthermore, the compounds of the formula I can be used to reduce the water consumption of plants. This is particularly important for agriculturally useful areas which have to be irrigated at high cost, for example in arid or semiarid regions. By using the novel substances, it is possible to reduce the intensity of irrigation and hence to carry out more economical farming. Under the influence of the compounds of the formula I, better utilization of the available water is achieved because, inter alia,

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- the extent of opening of the stomata is reduced
- a thicker epidermis and cuticle are formed

- the root penetration of the soil is improved and
- the microclimate in the crop is advantageously influenced by more compact growth.
- <sup>5</sup> The compounds of the formula I which are to be used according to the invention as growth regulators can be fed to the crops both via the seed (as seed dressing) and via the soil, i.e. through the roots and, particularly preferably, via the foliage by spraying.

10

To widen the activity spectrum and to achieve synergistic effects, the phenylalanine derivatives of the formula I may be mixed with a large number of representatives of other herbicidal or growth-regulating active compound groups and then applied concomitantly. Suitable components for mixtures are, for example, 1,2,4-thiadiazoles, 1,3,4-thiadiazoles, amides, aminophosphoric acid and its derivatives, aminotriazoles, anilides, (het)aryloxy-alkanoic acids and their derivatives, benzoic acid and its derivatives, benzothiadiazinones, 2-(aroyl/hetaroyl)-1,3-cyclo-hexanediones, hetaryl aryl ketones, benzylisoxazolidinones,

hexanediones, hetaryl aryl ketones, benzylisoxazolidinones, meta-CF<sub>3</sub>-phenyl derivatives, carbamates, quinolinecarboxylic acid and its derivatives, chloroacetanilides, cyclohexenone oxime ether derivatives, diazines, dichloropropionic acid and its derivatives, dihydrobenzofurans, dihydrofuran-3-ones, dinitro-

anilines, dinitrophenols, diphenyl ethers, dipyridyls, halocarboxylic acids and their derivatives, ureas, 3-phenyl-uracils, imidazoles, imidazolinones, N-phenyl-3,4,5,6-tetra-hydrophthalimides, oxadiazoles, oxiranes, phenols, aryloxy- and heteroaryloxyphenoxypropionic esters, phenylacetic acid and its

derivatives, phenylpropionic acid and its derivatives, pyrazoles, phenylpyrazoles, pyridazines, pyridinecarboxylic acid and its derivatives, pyrimidyl ethers, sulfonamides, sulfonylureas, triazines, triazinones, triazolinones, triazolecarboxamides and uracils.

35

It may furthermore be advantageous to apply the compounds of the formula I, alone or else concomitantly in combination with other herbicides, or in the form of a mixture with other crop protection agents, for example together with agents for controlling pests or phytopathogenic fungi or bacteria. Also of interest is the miscibility with mineral salt solutions, which are employed for treating nutritional and trace element deficiencies. Non-phytotoxic oils and oil concentrates may also be added.

The application rates of the active compound are from 0.001 to 3.0, preferably from 0.01 to 1.0 kg/ha of active substance (a.s.), depending on the control target, the season, the target plants and the growth stage.

Preparation Examples

Preparation of the compound I-44

- 10 A) Reductive amination of a polymer resin
- 20 g of 4-(4-formyl-3-methoxyphenoxy)butyrylaminomethylpolystyrene resin were initially charged in 200 ml of
  dimethylformamide and 2 ml of acetic acid, 49 ml of methylamine,
  15 10.7 ml of trimethyl orthoformate and 6.2 g of sodium
  cyanoborhydride were added and the mixture was shaken at 50°C for
  18 hours. After cooling to room temperature, the resin was
  filtered off, washed with in each case 100 ml of
  dimethylformamide (2x), methanol (1x), tetrahydrofuran (3x) and
  20 dichloromethane (3x) and dried at room temperature.
  - B) N-Acylation using a substituted phenylalanine derivative
- 5 g of the resin prepared in step A were initially charged in
  25 50 ml of dichloromethan/dimethylformamide 1:1, 4.4 g of
  Fmoc-2-fluorophenylalanine and 5.6 g of
  benzotriazol-1-yloxy-trispyrrolidinophosphonium
  hexafluorophosphate (PyBOP) were added and the mixture was shaken
  at room temperature for 5 min. 1.9 ml of N-methylmorpholine were
  30 then added, and the mixture was shaken at room temperature for 18
  hours. The resin was filtered off and then washed with in each
  case 20 ml of dimethylformamide (5x).
  - C) Removal of the protective group X
- To remove the Fmoc protective group, the resin was suspended in 50 ml of dimethylformamide/piperidine 1:1 and shaken at room temperature for 1 h. The resin was then filtered off and washed with in each case 20 ml of dimethylformamide (2x), methanol (1x), 40 tetrahydrofuran (3x) and dichloromethane (3x). The resin was dried at room temperature.
  - D) N-Acylation
- 45 250 mg of the resin from step C, 133 mg of 2,4-dichloro-3-(difluoromethyl)benzoic acid and 286 mg of benzotriazol-1-yloxytrispyrrolidinophosphonium

hexafluorophosphate (PyBOP) were initially charged in dichloromethane/dimethylformamide 1:1 (2.5 ml). After 5 minutes of shaking, 97 µl of N-methylmorpholine were added, and the mixture was shaken at room temperature for 18 h. The resin was 5 then filtered off and washed with in each case 3 ml of dimethylformamide (2x), methanol (1x), tetrahydrofuran (3x) and dichloromethane (3x). To cleave the product from the solid support, about 2 ml of trifluoroacetic acid/dichloromethane 1:3 were added to the resin. The mixture was shaken for 30 min and 10 then filtered, and the filtrate was concentrated for further use.

- \*) 2,4-Dichloro-3-(difluoromethyl)benzoic acid was prepared as follows: Reaction of 1,3-dichloro-2-methylbenzene with acetyl chloride and subsequent oxidation to give
- 15 1,3-dichloro-2-methylbenzoic acid, conversion of the benzoic acid into the methyl ester, followed by bromination of the methyl group located in position 2, oxidation of the brominated methyl group to give the corresponding aldehyde, fluorination of the resulting product with diethylaminosulfur trifluoride and
- 20 subsequent hydrolysis of the resulting methyl 2,4-dichloro-2-difluoromethylbenzoate to give 2,4-dichloro-3-(difluoromethyl)benzoic acid.

Yield: 48%

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Preparation of the compound I-32 by process 4

Step A

30 13.8 ml of triethylamine were added to 5.29 g of diethyl aminomalonate hydrochloride in 100 ml of dichloromethane. With ice-cooling, trifluoromethylbenzoyl chloride was added to the resulting suspension, which was then shaken at room temperature overnight. The mixture was then extracted with 50 ml of water and 35 the organic phase was separated off and dried over magnesium sulfate.

Step B

40 0.8 g of 1-(2-fluorophenyl)ethyl methanesulfonate \*) and 0.673 g of potassium tert-butoxide were added to 1.27 g of the ester formed in step A in 20 ml of dioxane, and the mixture was incubated at 80°C with shaking overnight. Water was then added at room temperature, followed by extraction with dichloromethane and 45 subsequent drying over magnesium sulfate.

\*)1-(2-fluorophenyl)ethyl methanesulfonate was prepared from 1-(2-fluorophenyl)ethanol by reaction with methanesulfonic anhydride.

# 5 Step C

1 ml of concentrated (about 45% by weight strength) aqueous sodium hydroxide solution was added to 0.8 g of the diester formed in step B in 10 ml of dioxane, and the mixture was incubated at 80°C with stirring overnight. Water was then added at room temperature. Following addition of hydrochloric acid until a pH of 2 had been reached, the mixture was extracted with ethyl acetate and the organic phase was separated off and concentrated.

# 15 Step D

3.58 g of polymer-bound DCC and 0.315 g of methylamine (40% by volume in water) were added to 0.75 g of the acid formed in step C, the mixture was shaken at room temperature overnight and the 20 resin was filtered off.

The compounds listed in Table I below were prepared by appropriate modification of the process described above. The compounds II required for the synthesis of the compounds were 25 obtained from Fluka and Advanced Chem Tech, the substituted benzoic acids V and the substituted benzoyl chlorides VI were obtained from Aldrich and ABCR and the amines IX were obtained from from Aldrich.

30 The resulting phenylalanine derivatives of the formula I where  $R^4$ ,  $R^5$ ,  $R^6$ ,  $R^8$ ,  $R^{14}$  and  $R^{15}$  = hydrogen and  $R^9$  = methyl, as shown below,

are listed in Table I together with physical data and the mass signal (M+). The measurements were carried out by by LC-MS 45 (HP-1100, Agilent) using the following conditions:

LC-MS conditions:

Buffer A'(isopropanol, 0.05% trifluoroacetic acid)

Buffer B (water, 0.05% trifluoroaceetic acid)

Flow rate: 1.2 ml/min

5 Injection volume: 2 μl

Fragmentation voltage: 20V, positive ionization

mass range (m/z): 130-700

Column: Merck ROD column (50 x 4.6 mm)

10 N2 detection:

(Method UV-MS-N2)

Injection volume: 5 µl

Fragmentation voltage: 20V, positive ionization

mass range (m/z): 130-700

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Preparation of compound II-15 by process 5

Preparation of the intermediate 1-(2-fluorophenyl)-1-bromopropane

# 20 Step 1

At -20°C, 100 ml of a 1 M solution of ethylmagnesium bromide in THF were added to 10.0 g (0.081 mol) of 2-F-benzaldehyde in 150 ml of THF, the mixture was incubated with stirring for 1.5 h

- 25 and 100 ml of saturated  $NH_4Cl$  solution was added dropwise. The mixture was saturated with NaCl and the organic phase was then separated off, the aqueous phase was extracted with ethyl acetate and the combined organic phases were concentrated.
- 30 1H-NMR signals (CDCl<sub>3</sub>): 7.6-7.0 (m, 4 H), 5.0 (t, 1 H), 2.0 br.s. 1 H), 1.8 (m, 2 H), 1.0 (t, 3 H)

Yield: 11.2 g as a crude product of a purity of about 70% which was used without further purification for step 2

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Step 2

- 11.2 g of the 1-(2-fluorophenyl)-1-bromopropane obtained in step 1 were dissolved in 150 ml of CH<sub>2</sub>Cl<sub>2</sub>, 90 ml of a 1 M solution of 40 BBr3 in CH<sub>2</sub>Cl<sub>2</sub> were added at 0°C and the mixture was, after 1 h at
- 40 BBr3 in CH<sub>2</sub>Cl<sub>2</sub> were added at 0°C and the mixture was, after 1 h at 0°C, poured into ice-water. The organic phase was removed and the aqueous phase was then extracted with CH<sub>2</sub>Cl<sub>2</sub>, and the combined organic phases were concentrated.
- 45 1H-NMR signals (CDCl3): 7.4-7.0 (m, 4 H), 5.3 (m, 1 H), 2.3 (m, 1 H), 2.1 (m, 1 H), 1.0 (t, 3 H)

Yield: 14.2 g of the title compound, which was reacted further as a crude product of a purity of about 85%

Preparation of Na-(2-trifluoromethyl-4-fluorobenzoyl)5 2-(1-methyl-1-(2-fluorophenyl))glycine-N-methylamide (compound II-15)

# Step 1

- 10 8.61 g of ethyl diphenylmethylideneglycinate, 7.0 g of 1-(1-bromopropyl)-2-fluorobenzene, 13.6 g (0.1 mol) of K2CO3 and 1.06 g (0.003 mol) of tetrabutylammonium bromide in 200 ml of acetonitrile were stirred under reflux for 43 h, cooled and filtered off. After concentration, the filtrate was dissolved in
- 15 150 ml of THF and stirred with 150 ml of 10% strength citric acid until the conversion was complete. After removal of the THF, the mixture was extracted with MTBE (methyl tert-butyl ether), the aqueous phase was saturated with  $K_2CO_3$  and the product was extracted 3 times with in each case 100 ml of ethyl acetate.
- 20 Drying and concentration gave 4.92.4 g of crude product which was used without further purification for the next step.

# Step 2

- 25 2.4 g of the ethyl 2-(1-methyl-1-(2-(-fluorophenyl))glyinate from step 1 were dissolved in 100 ml of methylene chloride, 3.48 g of NEt3 were added and, at 0°C, 1.27 g (0.01 mol) of 2-trifluoromethyl-4-F-benzoyl chloride were added dropwise. The mixture was stirred at room temperature for 16 h and then diluted
- 30 with 200 ml of ethyl acetate and washed with in each case 100 ml of 1N HCl and water, and the organic phase was removed under reduced pressure. Chromatographic separation on silica gel (mobile phase cyclohexane/ethyl acetate 8/1) gave 0.7 g of the pure diastereomer A of ethyl Na-(2-trifluoromethyl-
- 35 4-fluorobenzoyl)-2-(1-methyl-1-(2-fluorophenyl))glycinate, 0.22 g of a 1:1 mixture of the two diastereomers A and B of ethyl Na-(2-trifluoromethyl-4-fluorobenzoyl)-2-(1-methyl-1-(2-fluorophenyl))glycinate and 0.6 g of the diastereomer B of ethyl Na-(2-trifluoromethyl-4-fluorobenzoyl)-2-(1-methyl-1-(2-fluoro-
- 40 phenyl))glycinate. Diastereomers A and B were separately characterized by spectroscopy, and all three fractions were then combined for the further conversion in step 3 to 1.55 g of a 1:1 diastereomer mixture.
- 45 Signals in the lH-NMR (CDCl<sub>3</sub>) of diastereomer A ethyl (Nα-(2-trifluoromethyl-4-fluorobenzoyl)-2-(1-methyl-1-(2-fluorophenyl))glycinate): 7.5-7.0 (m, 7 H), 6.1 (br. d lH), 5.1 (m, 1

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H), 4.3 (m, 2 H), 3.5 (m, 1 H9, 2.1-2.0 (m, 2 H), 1.3 (t, 3 H), 1.0 (t, 3 H).

Signals in the 1H-NMR (CDCl<sub>3</sub>): of diastereomer B ethyl 5 (Nα-(2-trifluoromethyl-4-fluorobenzoyl)-2-(1-methyl-1-(2-fluorophenyl))glycinate): 7.6 -7.0 (m, 7 H), 6.3 (br. d, 1 H), 5.1 (m, 1 H), 4.1 (m, 2 H), 3.3 (m, 1 H), 2.0 (mc 2 H), 1.1 (t, 3 H), 0.8 (t, 3 H).

#### 10 Step 3

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1.5 g of the diastereomer mixture formed in step 2 were dissolved in 100 ml of ethanol. Subsequently, gaseous methylamine was added to the solution until saturation had been reached. After 4 days 15 of stirring at room temperature, the mixture was concentrated and 200 ml of MTBE were added. The resulting solid was filtered off and dried. The resulting product was a 1:1 mixture of the diastereomers of compound II-15.

20 Yield: 0.261 g

Melting point: 201-202℃

1H-NMR signals (d6-DMSO): 9.0 (br. d, 1 H), 8.7 (d, 1 H), 8.2

25 (d, 1 H), 7.8-7.1 (m, 14 H), 6.8 (m, 1 H), 4.9 (m, 1 H), 4.8 (m, 1 H), 3.3 (m, 2 H), 1.9 (m, 1 H), 1.6 (m, 3 H) 2.6 (d, 3 H), 2.4 (d, 3 H), 0.8 (m, 6 H).

The compounds listed in table II below were prepared by modifying 30 the process described above in an appropriate manner. The starting materials required for synthesizing the compounds were obtained from Fluka and Advanced Chem Tech, the substituted benzoic acids V and the substituted benzoyl chlorides VI from Aldrich and ABCR and the amines IX from from Aldrich.

The resulting phenylalanine derivatives of the formula I where  $R^9$ ,  $R^{10}$ ,  $R^{14}$  and  $R^{15}$  = hydrogen as shown below

are [lacuna] in table II together with the melting point or physical data (mass signal (M+) and LC-MS mesurements using conditions a or i).

5 LC-MS conditions a:

Buffer A (acetonitrile, 0.1% trifluoroacetic acid) Buffer B (water, 0.1% trifluoroacetic acid)

Flow rate: 1.8 ml/min

Temperature: 80°C

10 Injection volume: 2  $\mu$ l

Fragmentation voltage: 80V, positive ionization, mass range (m/z): 100-700

Column: Merck ROD column (50 x 4.6 mm)

15 LC-MS conditions i:

Buffer A (isopropanol, 0.05% trifluoroacetic acid)

Buffer B (water 0.05% trifluoroacetic acid)

Flow rate: 1.5 ml/min Injection volume: 2 µl

20 Temperature: 40°C

Fragmentation voltage: 20V, positive ionization

mass range (m/z): 130-700

Column: Merck ROD column (50 x 4.6 mm)

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Table I

ſ	No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>7</sup>	R11	R12	R <sup>13</sup>	R14	Configuration	M+
1		F	H	H			H	H	H	Racemate	319
- I		F	H	H			Cl	H	H	Racemate	369
ł	I-3	F		H			H	<u> </u>	H	Racemate	369
1	I-4	H	F	Ħ			H	H	Ħ	Racemate	319
•	I-5	<del>_</del> _	F	H			Cl	H	H	Racemate	370
10	I-6	<del>H</del>	F	H			H	H	H	Racemate	380
	T-7	<u>-</u>	F	H			н	Ħ	H	Racemate	369
	I-8	Ħ	Cl	H	H	F	H	H	Н	Racemate	335
	I-9	H	Cl	н	H	Cl	Cl	H	B	Racemate	386
15	I-10	H	Cl	H	H	Br	Ħ	H	H	Racemate	396
	I-11	H	Cl	H	Ħ	CF <sub>3</sub>	H	H	H	Racemate	384
	I-12	Cl	H	H	H	F	H	H	H	Racemate	335
	I-13	Cl	H	H	H	Cl	Cl	H	H	Racemate	386
20	I-14	Cl	B	H	H	Br	H	H	н	Racemate	396
	I-15	Cl	H	H	H	CF <sub>3</sub>	H	H	H	Racemate	385
	I-16	CH <sub>3</sub>	H	H	H	F	H	H	H	Racemate	315
	I-17	CH <sub>3</sub>	H	H	H.	Cl	Cl	H	H	Racemate	366
25	I-18	CH <sub>3</sub>	H	H	Н	Br	н	H	н	Racemate	376
	I-19	CH <sub>3</sub>	H	H	H	CF <sub>3</sub>	Н	H	H	S	365
	I-20	H	CH <sub>3</sub>	H	H	F	H	H	H	Racemate	315
	I-21	H	CH <sub>3</sub>	H	H	Cl	Cl	H	H	Racemate	366
30	I-22	H	CH <sub>3</sub>	H	H	Br	H	H	H	Racemate	376
30	I-23	H	CH <sub>3</sub>	H-	Ħ	CF3	H	H	H	Racemate	365
	I-24	H	F	H	H	CF3	F	H	H	S	387
	I-25	H	F	H	В	CF3	H	H	F	S	387
	I-26	H	H	H	H	CF <sub>3</sub>	H	H	H	S	351
35	I-27	H	H	H	Ħ	Cl	Cl	H	H	Racemate	352
	I-28	CH <sub>3</sub>	H	H	H	CF <sub>3</sub>	H	H	H	Racemate	365
	I-29	CH <sub>3</sub>	H	H	H	Cl	Cl	H	H	Racemate	366
	1-30	F	В	H	H	CF3	H	H	H	R	369
40	I-31	F	H	H	H	Cl	Cl	H	Ħ	R	370
•	I-32	? F	H	H	CH <sub>3</sub>	CF <sub>3</sub>	H	H	H	Diastereomer	383
	1-33	CH <sub>3</sub>	H	H	Ħ	Cl	CF <sub>3</sub>	H	В	Racemate	399
	I-34	CH <sub>3</sub>	H	H	H	CF <sub>3</sub>	Ħ	F	H	Racemate	383
45	I-35	CH <sub>3</sub>	H	H	H	CF <sub>3</sub>	F	· H	H	Racemate	383
	1-36	5 H	H	F	H	CF <sub>3</sub>	H	H	H	Racemate	369
	I-3	7 H	H	Cl	H	CF <sub>3</sub>	H	H	H	Racemate	385





	No.	Rl	R <sup>2</sup>	R <sup>3</sup>	R <sup>7</sup>	R11	R12	R <sup>13</sup>	R14	Configuration	M+
	I-38	H	H	F	H	Cl	Cl	H	H	Racemate	370
	1-39	H	H	C1	H	Cl	Cl	H	H	Racemate	386
5	I-40	F	H	H	H	Cl	CF <sub>3</sub>	H	H	S	403
	I-41	F	H	H	H	Cl	H	NO <sub>2</sub>	H	S	380
	1-42	F	H	H	H	Cl	H	SO <sub>2</sub> CH <sub>3</sub>	H	S	413
	I-43	F	H	H	H	Cl	CN	OCH <sub>3</sub>	H	S	390
10	I-44	F	H	H	H	Cl	CHF2	Cl	H	S	420
10	I-45	F	H	Ħ	H	Cl	CH <sub>3</sub>	NO <sub>2</sub>	H	S	394
	I-46	CH <sub>3</sub>	H	H	H	Cl	H	NO <sub>2</sub>	H	S	376
	I-47	CH <sub>3</sub>	H	H	H	Cl	H	SO <sub>2</sub> CH <sub>3</sub>	H	S	409
	I-48	CH3	H	H	Ħ	Cl	CN	OCH <sub>3</sub>	H	S	386
15	I-49	CH <sub>3</sub>	H	H	Ħ	Cl	CHF <sub>2</sub>	Cl	H	S	416
	I-50	CH <sub>3</sub>	H	H	H	Cl	CH <sub>3</sub>	NO <sub>2</sub>	H	S	390
	I-51	CH <sub>3</sub>	H	H	H	CF <sub>3</sub>	Ħ	F	H	S	383
	I-52	CH <sub>3</sub>	H	H	H	Cl	CF <sub>3</sub>	H	Ħ	S	399
20	I-53	CH <sub>3</sub>	H	H	H	CF <sub>3</sub>	F	H	H	S	383
	I-54	F	H	H	H	CF3	H	Ħ	Ħ	S	369
	I-55	F	H	Ħ	Ħ	Cl	Cl	Ħ	H	S	370
	I-56	F	H	H	H	Cl	H	Cl	H	S	370
25	I-57	F	H	H	H	Cl	H	F	H	S	353
	I-58	CF <sub>3</sub>	H	H	H	CF3	H	H	H	S	419
	I-59	CF3	H	H	H	Cl	Cl	H	H	S	419
	I-60	CH <sub>3</sub>	H	H	H	Cl	H	Cl	H	S	365
30	I-61	CH <sub>3</sub>	H	Ħ	H	Cl	H	F	H	S	349

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	m·p.	208-209	219-220	192-193	231-132	198-199	203-204	213-215	214-215	260	200-201	204	206-210	235-237	220-222	201-202	195-196	228-230	224
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!	R12	田	Ξ	E	Н	=	Ξ	Ξ	н	н	Н	æ	H	æ	H	Ξ	Ξ	Ħ	Н
	R11	CF3	CF3	CF3	$CF_3$	CF3	CF3	$CF_3$	CF3	$cr_3$	$CF_3$	CF3	$CF_3$	CF3	CF3	CF3	$CF_3$	CF3	$CF_3$
	<u>ه</u>	E	H	H	н	Ħ	H	H	H	H	н	Ħ	æ	Ħ	æ	H	<b>=</b>	æ	æ
	R8	CH <sub>3</sub>	CH <sub>3</sub>	CH <sub>3</sub>	CH <sub>3</sub>	СИз	CH <sub>3</sub>	CH3	CH <sub>3</sub>	CH <sub>3</sub>	CH <sub>3</sub>	CH <sub>3</sub>	CH <sub>3</sub>	CH <sub>3</sub>	CH <sub>3</sub>	CH <sub>3</sub>	CH <sub>3</sub>	CH <sub>3</sub>	CH3
	۳. ۳.		=	H	CH <sub>3</sub>	н	н	CH3	H	CH3				E	<u></u>	E	<u>_</u>		E E
	R6 .	H	H	CH <sub>3</sub>	H	7.	CH <sub>3</sub>	H	CH3 F	H	CH <sub>3</sub> H	(CH <sub>2</sub> ) <sub>3</sub> <sup>1</sup> CH <sub>3</sub>	(CH <sub>2</sub> ) <sub>2</sub> H CH <sub>3</sub>	(CH <sub>2</sub> ) <sub>2</sub> F CH <sub>3</sub>	CH2CH3 F	CH2CH3 1	CH2CH3 1	CH2CH3 H	- E
	R5	<b> </b>	Ţ	<u>_</u>	_	=	E	E	=	_	E	=	<b>=</b>	×	=	=	=	=	£
	R4	-	C.F.3	_	=	_	=	=	=	_	_	=	=	=	H	H	=	=	=
	R3	æ	×	E	E	==	H	Æ	H	H	E	H	±.	H	H	E	Ξ	Ξ	Ξ
	R <sup>2</sup>	ОСИЗ	H	H	æ	н	н	H	Н	н	Н	Н	H	H	H	H	H	H	=
	R1	Ŀ		Et.	E,	CH2CH3	E4	6.	CH3	CH <sub>3</sub>	CH <sub>3</sub>	[ta	Ē.	CH3	CH3		124	CH <sub>3</sub>	1
тартат.	No.	11-1	$\top$	1	1	11-5	9-11	11-7	T	T		1	11-12	11-13	11-14	1	11-16	1	T

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Table II

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m.p. [⁰C]			198-200		215-218	205-207	215-216	205-206	215-216	210-211	253-254	200	236-237	209-210	220-221	229-230	226.227	127-027	067-987	216-217	196-197	203-204	212-214		
LC-MS cond.	8	æ																							8
+H+W	430.2	454.1																			L			. 707	40/07
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R12	ш	=	1 =		Ξ.	H	Н	H	H	E	:		æ	н	m	ļ,		=	æ	æ	н	m	],	, ,	=
R <sup>11</sup>	CF3	CF3	5	Cr3	CF3	CF3	CF3	CF3	CF3	, E		CF3	CF3	CF3	CF3	1 85	5 73	$CF_3$	$CF_3$	$\mathbb{C}\mathbb{F}_3$	$CF_3$	CF3	ā	רנים    -	CF3
R9	=	=		E	н	Ħ	H	H	H	:   =		×	H	H	==	,	=	Ŧ	H	Н	æ	=		<b>1</b> 2	æ
R8	CH3	CH.		СНЭ	CH3	CH <sub>3</sub>	CH <sub>3</sub>	CH3	, HJ	CII.3	cu3	СН3	СН3	CH <sub>3</sub>	CH3		CH3	CH3	СН3	CH3	CH <sub>3</sub>	CH,	7	CH3	СН3
R7	=	=	.	<b>=</b>	E	æ	E	×	3	: :	=	æ	m	E	æ		=	=	H	三	Ξ	=		=	=
R6	æ	12	2	(CH <sub>2</sub> ) <sub>3</sub> CH <sub>3</sub>	(CH <sub>2</sub> ) <sub>3</sub>	н	H	いおっておっ	7	z :	H	×	H	H	: :		122 122	н	н	H	=		<u> </u>	Æ	æ
75 75	-	5	<u> </u>	×	H	ដ	딩	,	.	_	≖	Ŧ	E	Ξ.	:   ;	=	Ж	H	×	<b>=</b>	<b>2</b>	:   5	;	ដ	æ
R4				×	E	H	-	,	. ].	=	H	H	=	=			==	оснэ	<b>=</b>	E	=	.   .	<u>.</u>	H	$CF_3$
R3	-		E	н	m	=	Ħ		1		[ta	OCH3	OCH.	, [	3 5	3	OCH3	E	E	æ	22		r:	н	н
R2			CI	æ	H	H	1		п	H	<b>111</b>	2	٤	<u> </u>	=	H	H	E	æ	=		<u> </u>	H	н	CF3
R1		DE	ເາ	Ēt.	<u>Gu</u>	£		2	=	ЮН	CF3	ច	5	3 ,	24	وعقاً	OCH3	OCH <sub>3</sub>	Ēŧ	OCH.	5 5	OCH33	NO <sub>2</sub>	NO <sub>2</sub>	×
No.	:	11-13	11-20	11-21	11-22	11-23		17-74	1I-25	11-26	11-27	11-28	30	17-73	II-30	11-31	11-32	11-33	17-34	17 25	CC_11	11-36	11-37	II-38	11-39

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											13.											
m.p. [°C]																						
LC-MS cond.	В	æ	В	а	<b>S</b>	Ø	ø5	ಪ	g	65	6	<b>8</b> 3	ø	Ø	83	es	æ	<b>e</b> 5	<b></b>	B	83	85
M+H+	379.1	387.1	393.1	395.0	375.1	377.1	421.0	437.1	451.1	429.0	387.1	403.1	437.1	449.0	417.1	471.0	401.1	405.1	453.0	451.0	387.1	410.1
R13	н	Я	F	E	н	Н	Н	H	н	H	H	Н	н	Н	H	<b></b>	E	H	Н	Н	н	æ
R12	н	н	Н	Н	н	н	н	H	H	H	н	Н	Н	Н	н	22	н	н	Н	H	н	<b></b>
R11	CF3	CF3	CF3	CF3	CF3	CF3	$cF_3$	CF3	$cF_3$	CF3	CF3	$CF_3$	CF3	$CF_3$	CF3	CF3	CF3	CF3	CF3	CF3	CF3	CP3
R <sub>9</sub>	E	H	_ =	ı=	=	æ	Œ	Н	Н	Н	Н	H	н	æ	H	Н	H	æ		æ		Н
R8	CH3	CH3	CH2C(CH)2	CH2CH(CH3)2	CH2CH(CH3)2	CH2CH(CH3)2	CH3	CH3	CH3	СВ3	CH3	CH <sub>3</sub>	CH <sub>3</sub>	CH <sub>3</sub>	СН3	CH3	CH <sub>3</sub>	СН3	CH <sub>3</sub>	СН3	CH3	CH3
R7	<b>333</b>	<b>22</b>	=	三	æ	=	=	=	=	垩	Ξ	=	三	=	=	=	=	표	×	=	=	æ
R6	=	H	H	H	==	H	H	H	H	=	Ħ	H	Ŧ	E	H	=	E	E	=	F	=	×
R5	=	E	æ	E	æ	E	ฮ	=	Ħ	=	æ	E.	=	=	=	=	Es.	æ	<b>=</b>	=	=	=
R	CH3	=	H	H	H	H	£.	2.	H	×	G.	ដ	CF3	Ga.	=	CP3	=:	<u>6</u>	CF3	=	8.	CH <sub>3</sub>
R3	=	I	æ	×	E	H	æ	æ	m	×	=	==	=	E	×	æ	==	Ξ	E	=	×	E
R2	CH <sub>3</sub>	Es.	E	×	=	E	H	CF <sub>3</sub>	H	Br	Eu	H	H	H	OCHF2	C1	CH <sub>3</sub>	Ē	H	SCF3	H	Æ
R1	×	14	æ	×	Ξ	=	Et.	H	SCF3	æ	H	124	Et	Br	H	a.	Ē.	Die .	ដ	H	Ġ.	NO2
No.	II-40	11-41	11-42	11-43	11-44	II-45	II-46	11-47	II-48	II-49	II-50	11-51	11-52	11-53	II-54	11-55	11-56	11-57	11-58	11-59	11-60	11-61

R1	R2	R3	R4	R <sup>5</sup>	R6	۲ <sub>4</sub>	<b>3</b> 8	ж •	R11	R44		+ H + X	cond.	[oc]
				7		2	in S	×	CF.	æ	=	403.1	a	
<del>-</del> -	ដ	H	=	=	=	=	Çm3	.	į	=	\_ <u>=</u>	419.0	8	
2	T	æ	H	ដ	æ	=	CH3	=	£ 1	:   :		301 1	a a	
	OCH <sub>3</sub>	æ	H	H	H	<b>111</b>	СН3	==	CF3	=		10100	s ,	
	OCF	Ξ	=	×	Н	H	CH3	æ	CF3	=	z:	435.1	5	
	3 60	=	-	=	H	æ	CH3	×	CF3	Ħ	н	453.1	B	
	3 8		=	Ξ	H	E	CH <sub>3</sub>	E	CF3	Ħ	н	430.0	<b>e</b> \$	
		.	: ]:		=	_=	CH,	=	CF3	æ	Н	396.1	æ	
NO <sub>2</sub>		=	<b>.</b>	. :	<u>.</u>	:  :	3.5	_	CF3	_	E	411.1	B	
	оснз	æ	OCH3	Ŧ		6	Çiii 3		7 6		_=	427.1	8	
ដ	CH(CH <sub>3</sub> ) <sub>2</sub>	×	æ	н	н	=	CH <sub>3</sub>	=	C <sub>2</sub>			1014	3 8	
CH <sub>3</sub>	=	Ħ	NO2	H	Ħ	Œ	CH3	E	$CF_3$	<u>.</u>	_	7.076	5	200-201
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	: 12	ı ı	OCH,	ដ		E	CH3	出	CP.	н	Ħ			229-230
	ocu3		OCH.	=	=	=	CH1	三	CF3	Ξ	Ħ			220-221
당	ОСИЗ	_		.			, H	<u>_</u>	i E	E	E			232-233
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OCHF2	æ	H	==	Œ	H	E	CH3	<u> </u>	£ 33		.		].,	
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	CH.	×	=	프	н	н	CH <sub>3</sub>	H	CF3	=	<u>R.</u>	401.4		
. 12	1	×	GH3	×	н	=	CH <sub>3</sub>	æ	CF3	æ	ß.	397.4	-	
E	: .	Ħ	<u> </u>	=	E	=	CH3	×	CF3	Ħ	G,	383.4		
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2.	E 33	:		=	ı	Ī≖	CH1	E	CF3	≖	Œ	411.4	·н	
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R13	E	F	Eu	H	<b>33</b>	н	H	E4	æ	H	E4	Ēų	E4	н	F	[Eq	Œ,	Н	н	н	æ	<b></b>
R12	<u>_</u>	=	H	×	Н	H	H	H	H	H	Я	×	H	Н	H	Н	н	Н	CF3	P	CI	ដ
R11	CF3	CF3	CF3	CF3	CF3	CF3	CF3	CF3	CF3	CF3	CF3	CF3	CF3	CF3	CF3	CF3	CF3	Eq	[24	[24	C1	C1
R9	=	=	=	E	E.	H	æ	21	H	H	CH3	E	×	Ξ	=	æ	<b>EE</b>	æ	æ	æ	æ	Н
R8	CH <sub>3</sub>	CH3	CH3	GH3	CH3	CH3	CH3	CH3	НО	осн	НО	OCH <sub>3</sub>	НО	осн	НО	НО	CH3	CH <sub>3</sub>	CH <sub>3</sub>	CH3	CH <sub>3</sub>	CH3
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R2	CB1	=	E	ច	H	CH3	Ŧ	E	E	H	H	æ	æ	E	==	==	H	E4	æ	æ	æ	æ
R1	CH3	CH3	CH <sub>3</sub>	CH3	CH <sub>3</sub>	Ee.	=	E	H	æ	H	H	04	=	=	B.	D.	æ	=	- - -	CH <sub>3</sub>	1
No.	II-84	11-85	11-86	II-87	11-88	II-89	11-90	11-91	11-92	11-93	11-94	11-95	96-11	11-97	86-II	11-99	11-100	11-101	11-102	11-103	11-104	11-105

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No.	R1	R <sup>2</sup>	<b>R</b> 3	R4	R5	ж е	۲ <sub>4</sub>	<b>8</b>	č č	Rit		3		cond.	[oc]
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							2	38.	H	SOCH	E	<b>=</b>	375.1	8	
II-111	CH3	Œ	=	<b>=</b> :	r:	<b>-</b> ;	4	C TTO				T			
				:	:	2	٥	12	<b>=</b>	SO,CHF,	œ	×	379.0	<b></b>	
II-112	CH3	Ξ.	X:	E	5	<b>c</b>	:	C***3				T			
						, ac	٥	יאט	Ξ	ប	CF.	Œ.	413.84	€5	
II-113	CH3	Ξ.	ı:	n n	4	CII.3		53			•				

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Use Examples for herbicidal action

The herbicidal activity of the phenylalanine derivatives of the 5 formula I was demonstrated by greenhouse experiments:

The cultivation containers used were plastic pots containing loamy sand with approximately 3.0% of humus as the substrate. The seeds of the test plants were sown separately for each species.

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For the pre-emergence treatment, directly after sowing, the active compounds, which had been suspended or emulsified in water, were applied by means of finely distributing nozzles. The containers were irrigated gently to promote germination and

- 15 growth and subsequently covered with transparent plastic hoods until the plants had rooted. This cover caused uniform germination of the test plants, unless this was adversely affected by the active compounds.
- 20 For the post-emergence treatment, the test plants were first grown to a height of from 3 to 15 cm, depending on the plant habit, and only then treated with the active compounds which had been suspended or emulsified in water. The test plants were for this purpose either sown directly and grown in the same
- 25 containers, or they were first grown separately as seedlings and transplanted into the test containers a few days prior to treatment. The application rate for the post-emergence treatment was 0.095, 0.5 or 1.91 kg of a.s. (active substance).
- 30 Depending on the species, the plants were kept at 10-25°C or 20-35°C. The test period extended over from 2 to 4 weeks. During this time, the plants were tended, and their response to the individual treatments was evaluated.
- 35 Evaluation was carried out using a scale from 0 to 100. 100 means no emergence of the plants, or complete destruction of at least the aerial parts and 0 means no damage, or normal course of growth.

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The plants used in the greenhouse experiments were of the following species:

· · · · · · · · · · · · · · · · · · ·	
Scientific name	Common name
Abutilon theophrasti	velvetleaf
Setaria italica	foxtail millet
Sinapis alba	white mustard
Chenopodium album	common lambsquarters
Setaria faberia	giant foxtail
Galium aperine	catchweed
	ladysthumb
	Abutilon theophrasti Setaria italica Sinapis alba Chenopodium album Setaria faberia

Compound I-19 provides very good control of Abutilon theophrasti and Setaria italica when applied by the post-emergence method at application rates of 0.5 kg of a.s./ha.

Compound I-24 provides very good control of Abutilon theophrasti and Sinapis alba when applied by the post-emergence method at application rates of 0.5 kg of a.s./ha.

Compound I-25 provides very good control of Abutilon theophrasti, Setaria italica and Sinapis alba when applied by the post-emergence method at application rates of 0.5 kg of a.s./ha.

Compound I-32 provides very good control of Setaria italica and Sinapis alba when applied by the post emergence method at application rates of 0.095 kg of a.s./ha.

30 Compound I-49 provides very good control of Abutilon theophrasti, Setaria italica and Sinapis alba when applied by the post-emergence method at application rates of 1.91 kg of a.s./ha.

Compound I-49 provides very good control of Abutilon theophrasti,

Setaria italica and Sinapis alba when applied by the
post-emergence method at application rates of 3.0 kg of a.s./ha.

Compound I-51 provides very good control of Abutilon theophrasti and Chenopodium album when applied by the post-emergence method at application rates of 1.0 kg of a.s./ha.

Compound I-53 provides very good control of Abutilon theophrasti, Setaria italica and Sinapis alba when applied by the 45 post-emergence method at application rates of 0.5 kg of a.s./ha. (3)

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Compound II-91 provides very good control of Abutilon theophrasti and Sinapis alba when applied by the post-emergence method at application rates of 2.0 kg of a.s./ha.

- 5 Compound II-87 provides very good control of Setaria faberia and Chenopodium album when applied by the post-emergence method at application rates of 1.0 kg of a.s./ha.
- Compound II-94 provides very good control of Abutilon theophrasti, Setaria italica and Sinapis alba when applied by the post-emergence method at application rates of 3.0 kg of a.s./ha.
- Compound II-111 provides very good control of Abutilon theophrasti, Setaria italica and Sinapis alba when applied by the
  post-emergence method at application rates of 1.0 kg of a.s./ha.

Compound II-112 provides very good control of Abutilon theophrasti, Setaria italica and Sinapis alba when applied by the 20 post-emergence method at application rates of 1.0 kg of a.s./ha.

Compound II-15 provides very good control of Abutilon theophrasti, Setaria italica and Sinapis alba when applied by the post-emergence method at application rates of 0.5 kg of a.s./ha.

Compound II-10 provides very good control of Chenopodium album, Galium aperine and Polygonum persicaria when applied by the post-emergence method at application rates of 1.0 kg of a.s./ha.

Compound II-7 provides very good control of Abutilon theophrasti and Chenopodium album when applied by the post-emergence method at application rates of 1.0 kg of a.s./ha.

Use examples for growth-regulating action

The growth-regulating action of the phenylalanine derivatives of the formula I was demonstrated by greenhouse experiments:

The cultivation containers used were plastic pots containing loamy sand with approximately 3.0% of humus as the substrate. The seeds of the test plants were sown separately for each species.

For the pre-emergence treatment, directly after sowing, the active compounds, which had been suspended or emulsified in water, were applied by means of finely distributing nozzles. The containers were irrigated gently to promote germination and growth and subsequently covered with transparent plastic hoods

until the plants had rooted. This cover causes uniform germination of the test plants, unless this was adversely affected by the active compounds.

- 5 For the post-emergence treatment, the test plants were first grown to a height of from 3 to 15 cm, depending on the plant habit, and then treated with the active compounds which had been suspended or emulsified in water. The test plants were for this purpose either sown directly and grown in the same containers, or they were first grown separately as seedlings and transplanted
- 10 they were first grown separately as seedlings and transplanted into the test containers a few days prior to treatment. The application rate for the post-emergence treatment was 0.5 kg of a.s./ha.
- 15 Depending on the species, the plants were kept at 10-25°C or 20-35°C. The test period extended over from 2 to 4 weeks. During this time, the plants were tended, and their response to the individual treatments was evaluated.
- 20 At the end of the experiment, the observed growth-regulating action was recorded by measuring the height of growth. The measured values obtained in this manner were compared to the height of growth of untreated plants.
- 25 Compound II-92, when applied post-emergence at a rate of 500 g/ha, had a significant impact on the longitudinal growth of Zea mays L. 14 days after application (see Tab. III)

30	Compound	Height in cm	Plant
	II-92	31-33	Zea mays L.
	Untreated	40-42	Zea mays L.

Table III

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We claim:

1. A phenylalanine derivative of the formula I

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15 in which

R1, R2, R4, R5, R13 and R15 independently of one another are hydrogen, halogen, hydroxyl, mercapto, nitro, cyano,  $C_1-C_6-alkyl$ ,  $C_2-C_6-alkenyl$ ,  $C_2-C_6-alkynyl$ ,  $C_1-C_6-alkoxy$ , C<sub>3</sub>-C<sub>6</sub>-alkenyloxy, C<sub>3</sub>-C<sub>6</sub>-alkynyloxy, C<sub>1</sub>-C<sub>6</sub>-alkylthio, 20 C3-C6-alkenylthio, C3-C6-alkynylthio, C1-C6-alkylsulfinyl, C<sub>3</sub>-C<sub>6</sub>-alkenylsulfinyl, C<sub>3</sub>-C<sub>6</sub>-alkynylsulfinyl, C<sub>1</sub>-C<sub>6</sub>-alkylsulfonyl, C<sub>3</sub>-C<sub>6</sub>-alkenylsulfonyl,  $C_3-C_6-alkynylsulfonyl, C_1-C_6-haloalkyl, C_2-C_6-haloalkenyl,$  $C_2-C_6-haloalkynyl$ ,  $C_1-C_6-haloalkoxy$ ,  $C_3-C_6-haloalkenyloxy$ , 25 C3-C6-haloalkynyloxy, C1-C6-haloalkylthio, C3-C6-haloalkenylthio, C3-C6-haloalkynylthio, C1-C6-haloalkylsulfinyl, C3-C6-haloalkenylsulfinyl, C3-C6-haloalkynylsulfinyl, C1-C6-haloalkylsulfonyl, C3-C6-haloalkenylsulfonyl, C3-C6-haloalkynylsulfonyl, 30 formyl, C1-C6-alkylcarbonyloxy,  $C_1-C_6-alkoxy-C_1-C_4-alkyl$ ,  $C_3-C_6-alkenyloxy-C_1-C_4-alkyl$ ,  $C_3-C_4$ -alkynyloxy- $C_1-C_4$ -alkyl,  $C_1-C_6$ -alkylthio- $C_1-C_4$ -alkyl, C3-C6-alkenylthio-C1-C4-alkyl, 35 C3-C4-alkynylthio-C1-C4-alkyl, C1-C6-alkylcarbonyl-C1-C4-alkyl,  $C_1-C_6-alkylcarbonyloxy-C_1-C_4-alkyl$ ,  $C_1-C_6-alkoxycarbonyl-C_1-C_4-alkyl$ ,  $C_1-C_6-alkoxy-C_1-C_4-alkoxy$ ,  $C_3-C_6-alkenyloxy-C_1-C_4-alkoxy$ ,  $C_3-C_4-alkynyloxy-C_1-C_4-alkoxy$ , 40 C1-C6-alkylthio-C1-C4-alkoxy,  $C_3-C_6$ -alkenylthio- $C_1-C_4$ -alkoxy, C3-C6-alkynylthio-C1-C4-alkoxy,  $C_1-C_6$ -alkylcarbonyl- $C_1-C_4$ -alkoxy,  $C_1-C_6-alkylcarbonyloxy-C_1-C_4-alkoxy$ , 45 C<sub>1</sub>-C<sub>6</sub>-alkoxycarbonyl-C<sub>1</sub>-C<sub>4</sub>-alkoxy or CO-R<sup>16</sup>;

		142
	R3	is hydrogen, halogen, mercapto, C1-C6-alkyl,
		$C_2$ - $C_6$ -alkenyl, $C_2$ - $C_6$ -alkynyl, $C_1$ - $C_6$ -alkylthio,
		C <sub>3</sub> -C <sub>6</sub> -alkenylthio, C <sub>3</sub> -C <sub>6</sub> -alkynylthio, C <sub>1</sub> -C <sub>6</sub> -alkylsulfinyl,
		C <sub>3</sub> -C <sub>6</sub> -alkenylsulfinyl, C <sub>3</sub> -C <sub>6</sub> -alkynylsulfinyl,
5		C <sub>1</sub> -C <sub>6</sub> -alkylsulfonyl, C <sub>3</sub> -C <sub>6</sub> -alkenylsulfonyl,
•		C <sub>3</sub> -C <sub>6</sub> -alkynylsulfonyl, C <sub>1</sub> -C <sub>6</sub> -haloalkyl, C <sub>2</sub> -C <sub>6</sub> -haloalkenyl,
		C2-C6-haloalkinyl, C1-C6-haloalkylthio,
		C <sub>3</sub> -C <sub>6</sub> -haloalkenylthio, C <sub>3</sub> -C <sub>6</sub> -haloalkynylthio,
		C <sub>1</sub> -C <sub>6</sub> -haloalkylsulfinyl, C <sub>3</sub> -C <sub>6</sub> -halo-alkenylsulfinyl,
		C <sub>3</sub> -C <sub>6</sub> -haloalkynylsulfinyl, C <sub>1</sub> -C <sub>6</sub> -haloalkylsulfonyl,
10		C3-C6-naloalkynyisullinyi, C1-C6-naloalkyisullonyi
		C <sub>3</sub> -C <sub>6</sub> -haloalkenylsulfonyl, C <sub>3</sub> -C <sub>6</sub> -haloalkynylsulfonyl,
		C <sub>1</sub> -C <sub>6</sub> -alkoxy-C <sub>1</sub> -C <sub>4</sub> -alkyl, C <sub>3</sub> -C <sub>6</sub> -alkenyloxy-C <sub>1</sub> -C <sub>4</sub> -alkyl,
		C <sub>3</sub> -C <sub>4</sub> -alkynyloxy-C <sub>1</sub> -C <sub>4</sub> -alkyl, C <sub>1</sub> -C <sub>6</sub> -alkylthio-C <sub>1</sub> -C <sub>4</sub> -alkyl,
		$C_3-C_6-$ alkenylthio- $C_1-C_4-$ alkyl,
15		$C_3-C_6-alkynylthio-C_1-C_4-alkyl$ ,
		C <sub>1</sub> -C <sub>6</sub> -alkylcarbonyl-C <sub>1</sub> -C <sub>4</sub> -alkyl,
		C <sub>1</sub> -C <sub>6</sub> -alkylcarbonyloxy-C <sub>1</sub> -C <sub>4</sub> -alkyl,
		C <sub>1</sub> -C <sub>6</sub> -alkyloxycarbonyl-C <sub>1</sub> -C <sub>4</sub> -alkyl or CO-R <sup>16</sup> ;
20	R6	is hydrogen, C <sub>1</sub> -C <sub>6</sub> -alkyl, C <sub>2</sub> -C <sub>6</sub> -alkenyl or C <sub>2</sub> -C <sub>6</sub> -alkynyl;
	R7	is hydrogen, halogen, C1-C6-alkyl, C2-C6-alkenyl,
		C2-C6-alkynyl, C1-C6-haloalkyl, C2-C6-haloalkenyl or
		C <sub>2</sub> -C <sub>6</sub> -haloalkynyl;
25	R <sup>8</sup>	is methyl, ethyl, C1-C6-alkoxy or hydroxyl;
	R <sup>9</sup>	is hydrogen or C <sub>1</sub> -C <sub>6</sub> -alkyl;
30	R10	is hydrogen, C <sub>1</sub> -C <sub>6</sub> -alkyl, C <sub>1</sub> -C <sub>6</sub> -alkoxycarbonyl or
30	••	C <sub>1</sub> -C <sub>6</sub> -haloalkoxylcarbonyl;
	Rll	is halogen, mercapto, nitro, cyano, C1-C6-alkyl,
	X	$C_2$ - $C_6$ -alkenyl, $C_2$ - $C_6$ -alkynyl, $C_1$ - $C_6$ -alkoxy,
25		C <sub>3</sub> -C <sub>6</sub> -alkenyloxy, C <sub>3</sub> -C <sub>6</sub> -alkynyloxy, C <sub>1</sub> -C <sub>6</sub> -alkylthio,
35		$C_3$ - $C_6$ -alkenylthio, $C_3$ - $C_6$ -alkynylthio, $C_1$ - $C_6$ -alkylsulfinyl,
		C <sub>3</sub> -C <sub>6</sub> -alkenylsulfinyl, C <sub>3</sub> -C <sub>6</sub> -alkynylsulfinyl,
		C <sub>1</sub> -C <sub>6</sub> -alkylsulfonyl, C <sub>3</sub> -C <sub>6</sub> -alkenylsulfonyl,
		$C_3-C_6$ -alkynylsulfonyl, $C_1-C_6$ -haloalkyl, $C_2-C_6$ -haloalkenyl,
		$C_3-C_6$ -alkynylsullonyl, $C_1-C_6$ -haloalkoxy, $C_3-C_6$ -haloalkenyloxy,
40		C2-C6-naloalkynyl, C1-C6-naloalkoky, C3-C6 haloalkylthio
•		C <sub>3</sub> -C <sub>6</sub> -haloalkynyloxy, C <sub>1</sub> -C <sub>6</sub> -haloalkylthio,
		C <sub>3</sub> -C <sub>6</sub> -haloalkenylthio, C <sub>3</sub> -C <sub>6</sub> -haloalkynylthio,
		C <sub>1</sub> -C <sub>6</sub> -haloalkylsulfinyl, C <sub>3</sub> -C <sub>6</sub> -haloalkenylsulfinyl,
		C <sub>3</sub> -C <sub>6</sub> -haloalkynylsulfinyl, C <sub>1</sub> -C <sub>6</sub> -haloalkylsulfonyl,
45		C <sub>3</sub> -C <sub>6</sub> -haloalkenylsulfonyl, C <sub>3</sub> -C <sub>6</sub> -haloalkynylsulfonyl,
		formyl, C <sub>1</sub> -C <sub>6</sub> -alkylcarbonyloxy,
		$C_1-C_6-alkoxy-C_1-C_4-alkyl$ , $C_2-C_6-alkenyloxy-C_1-C_4-alkyl$ ,

```
C_3-C_4-alkynyloxy-C_1-C_4-alkyl, C_1-C_6-alkylthio-C_1-C_4-alkyl,
            C2-C6-alkenylthio-C1-C4-alkyl,
            C_3-C_4-alkynylthio-C_1-C_4-alkyl,
            C_1-C_6-alkylcarbonyl-C_1-C_4-alkyl,
5
            C_1-C_6-alkylcarbonyloxy-C_1-C_4-alkyl,
            C_1-C_6-alkyloxycarbonyl-C_1-C_4-alkyl,
            C_1-C_6-alkoxy-C_1-C_4-alkoxy, C_3-C_6-alkeryloxy-C_1-C_4-alkoxy,
            C_3-C_4-alkynyloxy-C_1-C_4-alkoxy,
             C_1-C_6-alkylthio-C_1-C_4-alkoxy,
10
             C3-C6-alkenylthio-C1-C4-alkoxy,
             C_3-C_6-alkynylthio-C_1-C_4-alkoxy,
             C_1-C_6-alkylcarbonyl-C_1-C_4-alkoxy,
             C_1-C_6-alkylcarbonyloxy-C_1-C_4-alkoxy,
             C1-C6-alkyloxycarbonyl-C1-C4-alkoxy or CO-R16;
15
        R12 and R14 independently of one another are hydrogen,
             halogen, hydroxyl, mercapto, cyano, C1-C6-alkyl,
             C_2-C_6-alkenyl, C_2-C_6-alkynyl, C_1-C_6-alkoxy,
             C3-C6-alkenyloxy, C3-C6-alkynyloxy, C1-C6-alkylthio,
             C3-C6-alkenylthio, C3-C6-alkynylthio, C1-C6-alkylsulfinyl,
20
             C<sub>3</sub>-C<sub>6</sub>-alkenylsulfinyl, C<sub>3</sub>-C<sub>6</sub>-alkynylsulfinyl,
             C1-C6-alkylsulfonyl, C3-C6-alkenylsulfonyl,
             C_3-C_6-alkynylsulfonyl, C_1-C_6-haloalkyl, C_3-C_6-haloalkenyl,
             C2-C6-haloalkynyl, C1-C6-haloalkoxy, C3-C6-haloalkenyloxy,
             C3-C6-haloalkynyloxy, C1-C6-haloalkylthio,
25
             C2-C6-haloalkenylthio, C3-C6-haloalkynylthio,
             C1-C6-haloalkylsulfinyl, C3-C6-haloalkenylsulfinyl,
             C3-C6-haloalkynylsulfinyl, C1-C6-haloalkylsulfonyl,
             C_3-C_6-haloalkenylsulfonyl, C_3-C_6-haloalkynylsulfonyl,
30
             formyl, C1-C6-alkylcarbonyloxy,
             C_1-C_6-alkoxy-C_1-C_4-alkyl, C_3-C_6-alkenyloxy-C_1-C_4-alkyl,
             C_3-C_4-alkynyloxy-C_1-C_4-alkyl, C_1-C_6-alkylthio-C_1-C_4-alkyl,
             C3-C6-alkenylthio-C1-C4-alkyl,
             C_3-C_4-alkynylthio-C_1-C_4-alkyl,
             C_1-C_6-alkylcarbonyl-C_1-C_4-alkyl,
35
             C_1-C_6-alkylcarbonyloxy-C_1-C_4-alkyl,
             C_1-C_6-alkyloxycarbonyl-C_1-C_4-alkyl,
              C_1-C_6-alkoxy-C_1-C_4-alkoxy, C_3-C_6-alkenyloxy-C_1-C_4-alkoxy,
              C_3-C_4-alkynyloxy-C_1-C_4-alkoxy,
              C_1-C_6-alkylthio-C_1-C_4-alkoxy,
 40
              C3-C6-alkenylthio-C1-C4-alkoxy,
              C3-C6-alkynylthio-C1-C4-alkoxy,
              C_1-C_6-alkylcarbonyl-C_1-C_4-alkoxy,
              C<sub>1</sub>-C<sub>6</sub>-alkylcarbonyloxy-C<sub>1</sub>-C<sub>4</sub>-alkoxy,
              C_1-C_6-alkyloxycarbonyl-C_1-C_4-alkoxy or CO-R^{16}; and
 45
```

R<sup>16</sup> is hydrogen, hydroxyl, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>2</sub>-C<sub>6</sub>-alkenyl, C<sub>2</sub>-C<sub>6</sub>-alkynyl, C<sub>1</sub>-C<sub>6</sub>-haloalkyl, C<sub>2</sub>-C<sub>6</sub>-haloalkenyl, C<sub>2</sub>-C<sub>6</sub>-haloalkynyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>3</sub>-C<sub>6</sub>-alkenyloxy, C<sub>3</sub>-C<sub>6</sub>-alkynyloxy, C<sub>1</sub>-C<sub>6</sub>-haloalkoxy, C<sub>1</sub>-C<sub>6</sub>-alkylamino or di(C<sub>1</sub>-C<sub>6</sub>-alkyl) amino;

OI

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- together with R<sup>10</sup> forms a C<sub>3</sub>-C<sub>4</sub>-alkylene or -alkenylene chain, where the C<sub>3</sub>-C<sub>4</sub>-alkylene or -alkenylene chain may carry 1-3 substituents from the group consisting of halogen, nitro or cyano and/or one carbon atom of the C<sub>3</sub>-C<sub>4</sub>-alkylene chain may be replaced by a heteroatom selected from the group consisting of oxygen, sulfur and nitrogen and/or by a carbonyl group.
  - 2. A phenylalanine derivative of the formula I as claimed in claim 1, in which
- C<sub>3</sub>-C<sub>6</sub>-haloalkenylsulfinyl, C<sub>1</sub>-C<sub>6</sub>-haloalkylsulfonyl or C<sub>3</sub>-C<sub>6</sub>-haloalkenylsulfonyl;
  - R<sup>2</sup> is hydrogen, halogen, nitro, cyano, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>2</sub>-C<sub>6</sub>-alkynyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>3</sub>-C<sub>6</sub>-alkenyloxy, C<sub>3</sub>-C<sub>6</sub>-alkynyloxy, C<sub>1</sub>-C<sub>6</sub>-haloalkyl, C<sub>1</sub>-C<sub>6</sub>-haloalkoxy, C<sub>3</sub>-C<sub>6</sub>-haloalkenyloxy or C<sub>3</sub>-C<sub>6</sub>-haloalkynyloxy;
    - R3 is hydrogen, halogen, C1-C6-alkyl or C1-C6-haloalkyl;
- R4 is hydrogen, halogen, nitro, cyano, C<sub>1</sub>-C<sub>6</sub>-alkyl, 40 C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>3</sub>-C<sub>6</sub>-alkenyloxy, C<sub>3</sub>-C<sub>6</sub>-alkynyloxy, C<sub>1</sub>-C<sub>6</sub>-haloalkyl or C<sub>1</sub>-C<sub>6</sub>-haloalkoxy;
- R<sup>5</sup> is hydrogen, halogen, nitro, cyano, C<sub>1</sub>-C<sub>6</sub>-alkyl,
  C<sub>2</sub>-C<sub>6</sub>-alkenyl, C<sub>2</sub>-C<sub>6</sub>-alkynyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy,
  C<sub>3</sub>-C<sub>6</sub>-alkenyloxy, C<sub>3</sub>-C<sub>6</sub>-alkynyloxy, C<sub>1</sub>-C<sub>6</sub>-haloalkyl,
  C<sub>1</sub>-C<sub>6</sub>-haloalkoxy or C<sub>3</sub>-C<sub>6</sub>-haloalkenyloxy; and

....

- R6 is hydrogen or C1-C6-alkyl;
- $R^7$  is hydrogen, halogen,  $C_1-C_6$ -alkyl,  $C_2-C_6$ -alkenyl,  $C_2-C_6$ -alkynyl or  $C_1-C_6$ -haloalkyl;
- R8 is methyl, ethyl, hydroxyl or methoxy;
- R9 is hydrogen or methyl;
- 10  $R^{10}$  is hydrogen,  $C_1-C_6$ -alkyl,  $C_1-C_6$ -alkoxycarbonyl or  $C_1-C_4$ -haloalkoxycarbonyl;
- R<sup>11</sup> is halogen, nitro, cyano, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy,
  C<sub>1</sub>-C<sub>6</sub>-alkylthio, C<sub>3</sub>-C<sub>6</sub>-alkenylthio, C<sub>3</sub>-C<sub>6</sub>-alkynylthio,

  C<sub>1</sub>-C<sub>6</sub>-alkylsulfinyl, C<sub>3</sub>-C<sub>6</sub>-alkenylsulfinyl,
  C<sub>3</sub>-C<sub>6</sub>-alkynylsulfinyl, C<sub>1</sub>-C<sub>6</sub>-alkylsulfonyl,
  C<sub>3</sub>-C<sub>6</sub>-alkenylsulfonyl, C<sub>3</sub>-C<sub>6</sub>-alkynylsulfonyl,
  C<sub>1</sub>-C<sub>6</sub>-haloalkyl, C<sub>1</sub>-C<sub>6</sub>-haloalkoxy, C<sub>1</sub>-C<sub>6</sub>-haloalkylthio,
  C<sub>3</sub>-C<sub>6</sub>-haloalkenylthio, C<sub>1</sub>-C<sub>6</sub>-haloalkylsulfinyl,
  C<sub>3</sub>-C<sub>6</sub>-haloalkenylsulfinyl, C<sub>1</sub>-C<sub>6</sub>-haloalkylsulfonyl,
  C<sub>3</sub>-C<sub>6</sub>-haloalkenylsulfonyl or CO-R<sup>16</sup>;
- is hydrogen, halogen, nitro, cyano, C<sub>1</sub>-C<sub>6</sub>-alkyl,

  C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>1</sub>-C<sub>6</sub>-alkylthio, C<sub>3</sub>-C<sub>6</sub>-alkenylthio,

  C<sub>3</sub>-C<sub>6</sub>-alkynylthio, C<sub>1</sub>-C<sub>6</sub>-alkylsulfinyl,

  C<sub>3</sub>-C<sub>6</sub>-alkenylsulfinyl, C<sub>3</sub>-C<sub>6</sub>-alkynylsulfinyl,

  C<sub>1</sub>-C<sub>6</sub>-alkylsulfonyl, C<sub>3</sub>-C<sub>6</sub>-alkenylsulfonyl,

  C<sub>3</sub>-C<sub>6</sub>-alkynylsulfonyl, C<sub>1</sub>-C<sub>6</sub>-haloalkyl, C<sub>1</sub>-C<sub>6</sub>-haloalkoxy,

  C<sub>1</sub>-C<sub>6</sub>-haloalkylthio, C<sub>3</sub>-C<sub>6</sub>-haloalkenylthio,

  C<sub>1</sub>-C<sub>6</sub>-haloalkylsulfinyl, C<sub>3</sub>-C<sub>6</sub>-haloalkenylsulfinyl,

  C<sub>1</sub>-C<sub>6</sub>-haloalkylsulfonyl, C<sub>3</sub>-C<sub>6</sub>-haloalkenylsulfonyl or

  CO-R<sup>16</sup>;
- R12 and R14 independently of one another are hydrogen,
  halogen, cyano, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy,

  C<sub>1</sub>-C<sub>6</sub>-alkylthio, C<sub>3</sub>-C<sub>6</sub>-alkenylthio, C<sub>3</sub>-C<sub>6</sub>-alkynylthio,

  C<sub>1</sub>-C<sub>6</sub>-alkylsulfinyl, C<sub>3</sub>-C<sub>6</sub>-alkenylsulfinyl,

  C<sub>3</sub>-C<sub>6</sub>-alkynylsulfinyl, C<sub>1</sub>-C<sub>6</sub>-alkylsulfonyl,

  C<sub>3</sub>-C<sub>6</sub>-alkenylsulfonyl, C<sub>3</sub>-C<sub>6</sub>-alkynylsulfonyl,

  C<sub>1</sub>-C<sub>6</sub>-haloalkyl, C<sub>1</sub>-C<sub>6</sub>-haloalkoxy, C<sub>1</sub>-C<sub>6</sub>-haloalkylthio,

  C<sub>3</sub>-C<sub>6</sub>-haloalkenylthio, C<sub>1</sub>-C<sub>6</sub>-haloalkylsulfinyl,

  C<sub>3</sub>-C<sub>6</sub>-haloalkenylsulfinyl, C<sub>1</sub>-C<sub>6</sub>-haloalkylsulfonyl,

  C<sub>3</sub>-C<sub>6</sub>-haloalkenylsulfonyl or CO-R<sup>16</sup>;
- 45 R15 is hydrogen, halogen, C1-C6-alkyl or C1-C6-haloalkyl;

- R<sup>16</sup> is hydrogen, hydroxyl,  $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -haloalkyl,  $C_1$ - $C_6$ -alkoxy,  $C_1$ - $C_6$ -alkylamino or di( $C_1$ - $C_6$ -alkyl) amino;
- 5 and its agriculturally useful salts.
  - 3. A phenylalanine derivative of the formula I as claimed in claim 1 or 2 in which
- $R^2$  is hydrogen, halogen, cyano,  $C_1$ - $C_6$ -haloalkyl or  $C_1$ - $C_6$ -alkyl;
  - R3 is hydrogen, C1-C6-alkyl or halogen;
  - R4 is hydrogen, halogen, C<sub>1</sub>-C<sub>6</sub>-alkyl or C<sub>1</sub>-C<sub>6</sub>-haloalkyl;
- 20  $R^5$  is hydrogen, halogen,  $C_1-C_6$ -alkyl or  $C_1-C_6$ -haloalkyl;
  - R6 is hydrogen or C1-C6-alkyl;
- 25  $R^7$  is hydrogen,  $C_1-C_6$ -alkyl,  $C_2-C_6$ -alkenyl or  $C_2-C_6$ -alkynyl;
  - R8 is methyl, hydroxyl or methoxy;
  - R9 is hydrogen or methyl;
- R10 is hydrogen; and
- R12, R13 and R14 independently of one another are hydrogen, halogen, cyano, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>1</sub>-C<sub>6</sub>-alkyl-thio, C<sub>1</sub>-C<sub>6</sub>-alkylsulfinyl, C<sub>1</sub>-C<sub>6</sub>-alkylsulfonyl, C<sub>1</sub>-C<sub>6</sub>-haloalkyl, C<sub>1</sub>-C<sub>6</sub>-haloalkoxy or C<sub>1</sub>-C<sub>6</sub>-haloalkylthio; and
  - R15 is hydrogen.

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- 4. A phenylalanine derivative of the formula I as claimed in any of claims 1, 2 or 3 in which
- R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>5</sup> in each case independently of one another are hydrogen, fluorine, chlorine, methyl or ethyl;
  - $R^4$ ,  $R^6$ ,  $R^{10}$ ,  $R^{14}$  and  $R^{15}$  are hydrogen;
  - R7 is hydrogen, methyl or ethyl;
- R8 is methoxy, methyl or hydroxyl;
  - R9 is hydrogen;
    is methyl if R8 is hydroxyl;
- 15
  R11 is fluorine, chlorine, halomethyl such as fluoromethyl, difluoromethyl, trifluoromethyl, halomethoxy, such as fluoromethoxy, difluoromethoxy, trifluoromethoxy, halothioalkyl, such as fluorothiomethyl, difluorothiomethyl, trifluorothiomethyl, methylsulfinyl or methylsulfonyl;
- R12 is hydrogen, cyano, methyl, fluorine, chlorine, halomethyl, such as fluoromethyl, difluoromethyl, trifluoromethyl, halomethoxy, such as fluoromethoxy, difluoromethoxy, trifluoromethoxy, halothioalkyl, such as fluorothiomethyl, difluorothiomethyl, trifluorothiomethyl;
- 30 R13 is hydrogen, fluorine, chlorine.
  - 5. A process for preparing the phenylalanine derivatives of the formula I as claimed in any of claims 1 to 4, which comprises
    - (A) linking a phenylalanine derivative of the formula II

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$$R^{2} \longrightarrow R^{10} \longrightarrow NHX$$
 (II)

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which is protected at the amino function by a protective group X to a support resin;

(B) removing the protective group X by addition of a base,

(C) acylating the resulting compounds at the nitrogen and

10 (D) cleaving the compounds acylated at the nitrogen from the solid support by addition of an acid, followed by addition of a condensing agent with an amine IX

 $R^8-NH-R^9$  (IX)

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to give the phenylalanine derivatives I as claimed in any of claims 1 to 3.

20 6. A process for preparing the phenylalanine derivatives of the formula I as claimed in any of claims 1 to 4 in which  $R^9$  = hydrogen, which comprises

(XI)

(A) reacting a polymer resin X

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Pol-CHO (X)

with an amine XI

30 H<sup>2</sup>NR<sup>8</sup>

in the presence of a reducing agent;

(B) reacting the aminated resin XII

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Pol-CH2-NHR8

(XII)

obtained in step A with a phenylalanine derivative of the formula II as set forth in claim 4;

- 40
- (C) removing the protective group X by addition of a base;
- (D) and acylating the resulting compounds XIII

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R<sup>1</sup>

R<sup>6</sup>

R<sup>7</sup>

NH<sub>2</sub>

Pol

(XIII)

to give the compounds XIV

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which are subsequently, by addition of an acid, cleaved from the solid support, giving the compounds I.

- 7. A process for preparing the phenylalanine derivatives of the formula I as claimed in any of claims 1 to 4, which comprises
- (A) reacting a phenylalanine derivative of the formula II as set forth in claim 4, which is protected at the amino function by a protective group X, with an amine IX

 $HNR^8R^9$  (IX)

in an inert aprotic dipolar organic solvent to give the compounds XV

(B) removing the protective group X, and

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- (C) acylating the compounds obtained in step B to give the compounds I.
- 8. A process for preparing the phenylalanine derivatives of the formula I in which  $R^9$  = hydrogen as claimed in any of claims 1 to 4, which comprises
  - (A) reacting an aminomalonic acid ester derivative XVII

in which R' is a low-molecular-weight organic radical

with a benzyl derivative XVIII

 $R^{2} \xrightarrow{R^{1} R^{6} R^{7}} Z$ 

30 XVIII

to give the diesters XIX

40

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20

10

45

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R' N O R'

 $R^3$   $R^4$   $R^{14}$ 

(B) decarboxylating and hydrolyzing the diester XIX, followedby reaction with an amine IX

XIX

 $HNR^8R^9$  (IX)

in an inert aprotic dipolar organic solvent using a condensing agent, to give the compounds I.

- A process for preparing the phenylalanine derivatives of the formula I as claimed in any of claims 1 to 4, which comprises
- (A) reacting the benzyl derivative XVIII with an alkylating agent XXI

Ph O-Sg XXI

to give the compounds XXII

(B) and acylating the resulting compounds at the nitrogen and

(C) reacting the nitrogen-acylated compounds by addition of a condensing agent with an amine IX

 $R^8-NH-R^9$  (IX)

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to give the phenylalanine derivatives I as claimed in any of claims 1 to 3.

- 10 10. A composition which comprises at least one phenylalanine derivative of the formula I or an agriculturally useful salt of a phenylalanine derivative of the formula I as claimed in any of claims 1 to 4 and customary auxiliaries.
- 15 11. A composition suitable for controlling undesirable vegetation, which composition comprises a solid or liquid carrier and at least one phenylalanine derivative of the formula I or an agriculturally useful salt of a phenylalanine derivative of the formula I as claimed in any of claims 1 to 4.
  - 12. The use of the compounds I as claimed in any of claims 1 to 4 for preparing a composition suitable for controlling undesirable vegetation.

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- 13. A method for controlling undesirable vegetation, which comprises allowing a herbicidally effective amount of at least one phenylalanine derivative of the formula I or an agriculturally useful salt of a phenylalanine derivative of the formula I as claimed in any of claims 1 to 4 to act on plants, their habitat and/or on seed.
- 14. A composition for regulating plant growth, comprising a growth-regulating amount of at least one substituted
  35 phenylalanine derivative of the formula I or an agriculturally useful salt of I as claimed in any of claims 1 to 4 and at least one inert liquid and/or solid carrier and, if desired, at least one surfactant.
- 40 15. A process for preparing compositions for regulating plant growth, which comprises mixing a growth-regulating amount of at least one substituted phenylalanine derivative of the formula I or an agriculturally useful salt of I as claimed in any of claims 1 to 4 with at least one inert liquid and/or solid carrier and, if desired, at least one surfactant.

الم المحادث

16. A method for regulating plant growth, which comprises allowing a growth-regulating amount of at least one substituted phenylalanine derivative of the formula I or an agriculturally useful salt of I as claimed in any of claims 1 to 4 to act on plants.

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